608.73

41st Congress, 2d Session. } HOUSE OF REPRESENTATIVES. { Ex. Doc No. 102.

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# ANNUAL REPORT

OF THE

# COMMISSIONER OF PATENTS

FOR

## THE YEAR 1869.

INSTITUTION
FEB 17 1930
NATIONAL MUSEUM
283733

VOLUME III.

WASHINGTON:
GOVERNMENT PRINTING OFFICE
1871.

IN THE SENATE OF THE UNITED STATES,
*April* 10, 1869.

*Resolved by the Senate, (the House of Representatives concurring,)* That there be printed 4,000 extra copies of the annual report of the Commissioner of Patents for 1869 for the use of the Senate; 10,000 extra copies of the same for the use of the House; and 5,000 extra copies of the same for distribution by the Commissioner of Patents.

Attest:

GEO. C. GORHAM,
*Secretary,*
By W. J. McDONALD,
*Chief Clerk.*

IN THE HOUSE OF REPRESENTATIVES U. S.,
*February* 21, 1870.

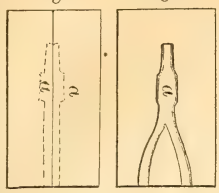
*Resolved,* That the House concur in the foregoing resolution of the Senate to print 4,000 extra copies of the annual report of the Commissioner of Patents for 1869 for the use of the Senate; and 10,000 extra copies of the same for the use of the House; and 5,000 extra copies of the same for distribution by the Commissioner of Patents.

Attest:

EDWARD McPHERSON,
*Clerk,*
By CLINTON LLOYD,
*Chief Clerk.*

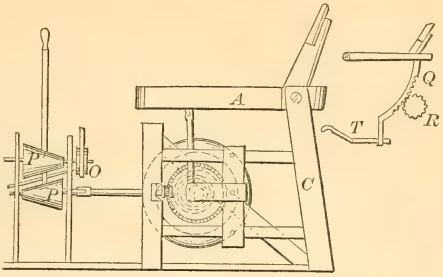
608.73

# ILLUSTRATIONS OF PATENTS.

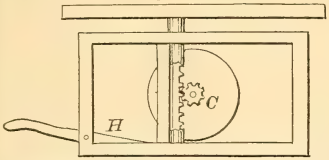



85503—G. R. Andrus—*Die.*

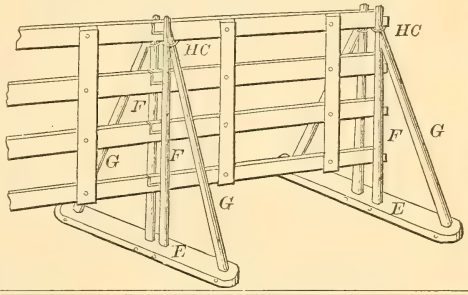
85504—S. J. Baird—*Motive Power for Sewing Machines.*



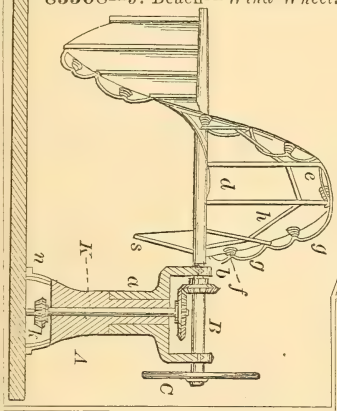

85505—S. J. Baird—*Motive Power for Sewing Machines.*



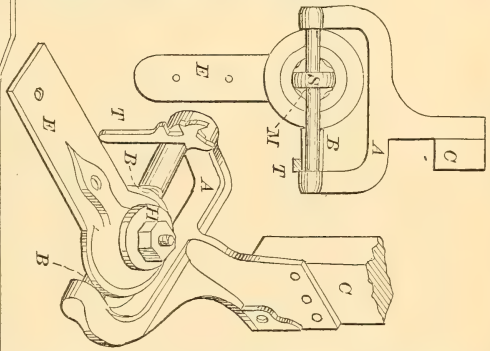

85506—A. T. Barnes—*Fence.*

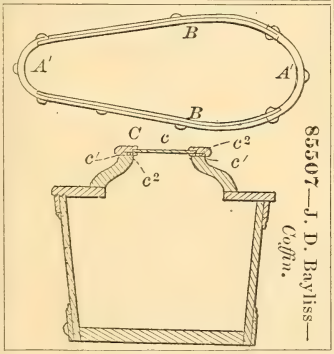



85508—J. Beach—*Wind Wheel.*

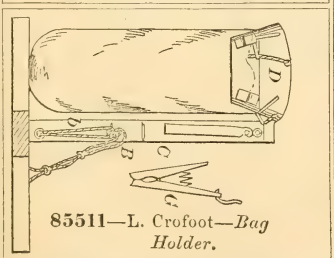



85509—N. & J. Carr—*Cultivator.*

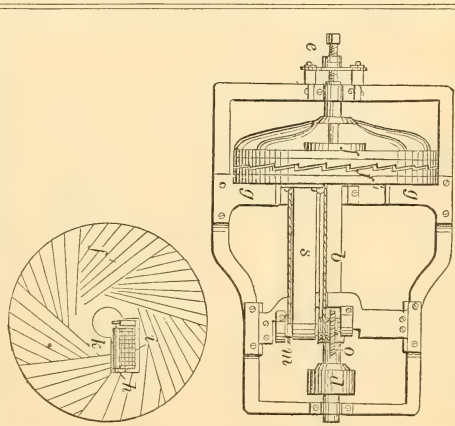



85507—J. D. Bayliss—*Coffin.*

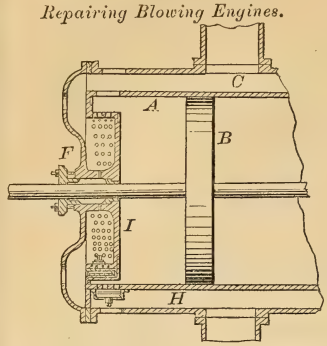



85511—L. Crofoot—*Bag Holder.*

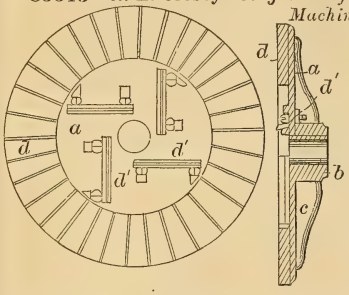



85512—A. E. Crosby—*Rag Cutting Machine.*

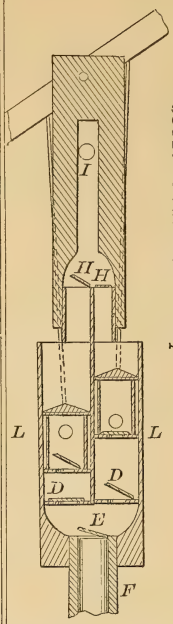
85510—T. Critchlow—*For Repairing Blowing Engines.*



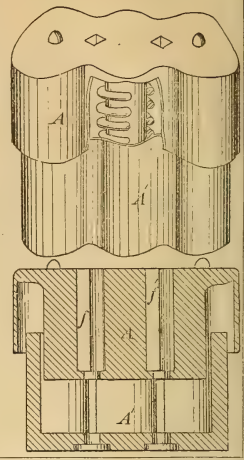

85513—A. E. Crosby—*Rag Cutting Machine.*



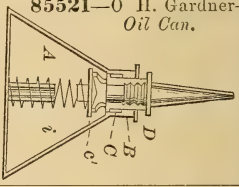

85517—D. S. Evans—*Pump.*



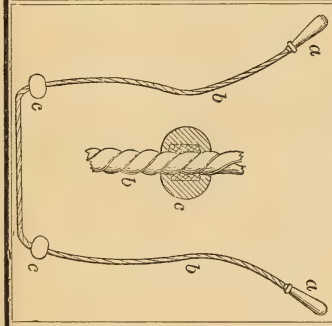

85518—J. W. Evans—*Car Spring Box.*



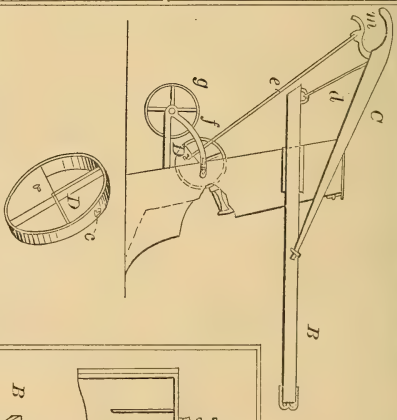

85521—O H. Gardner—*Oil Can.*



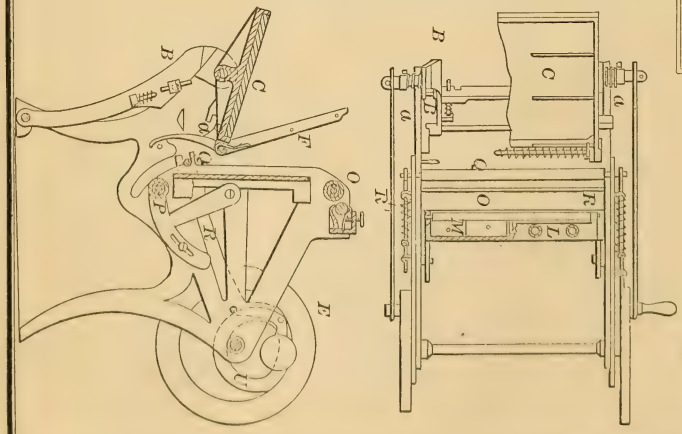

85514—J. R. Cross—*Skipping Rope.*



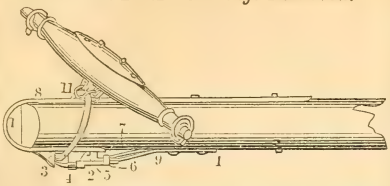

85516—T. Duncanson—*Corn Planter.*



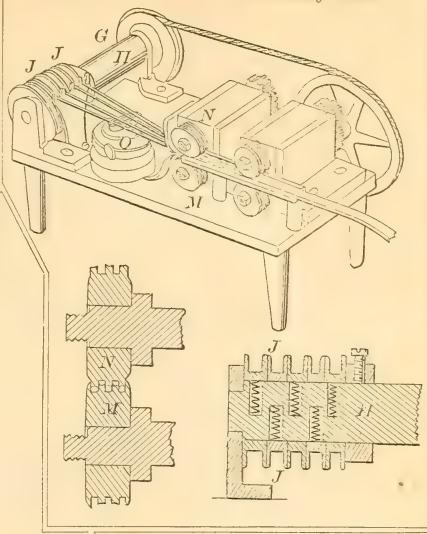

85515—H. B. Denny—*Printing Press.*



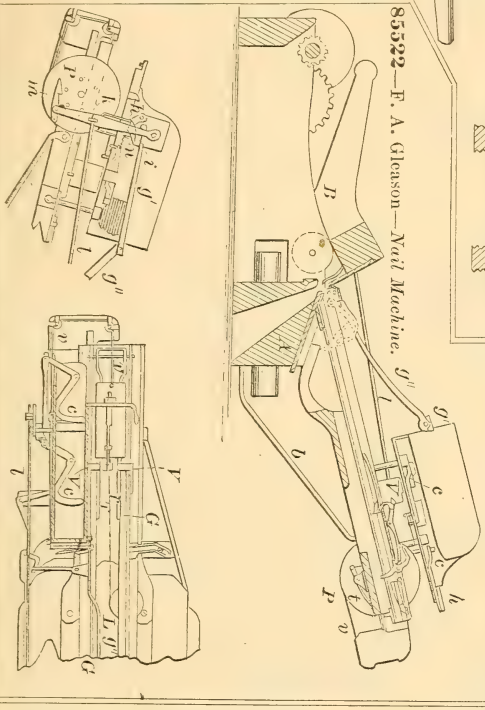
**85519**—B. Foltz—*Carriage Pole Iron.*



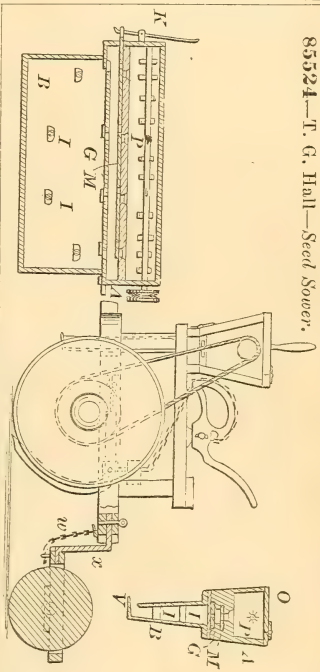
**85520**—T. Fowler—*For Making Wire.*



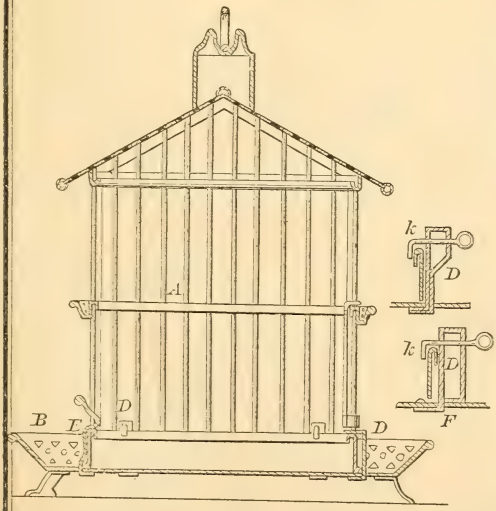
**85522**—F. A. Gleason—*Nail Machine.*



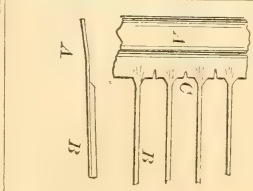
**85524**—T. G. Hall—*Seed Sower.*



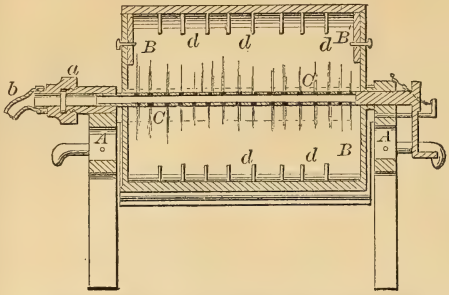
**85523**—G. Gunther—*Bird Cage.*



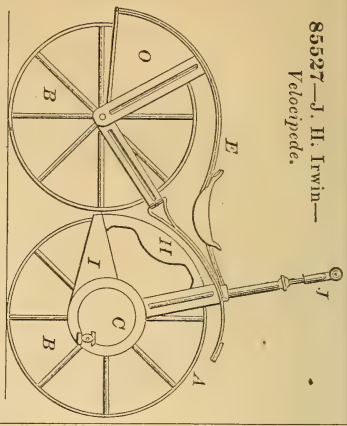
**85525**—A. Hathaway—*Ruling Pen.*



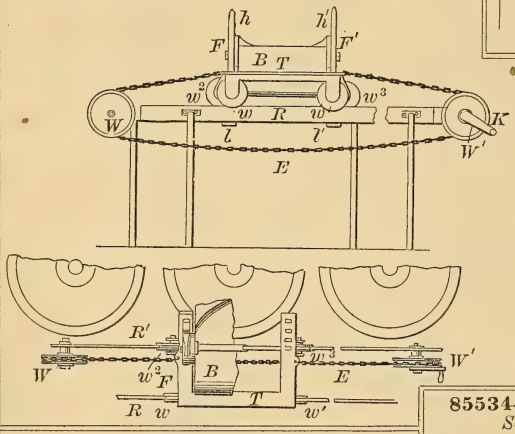
**85526**—F. Hinckel—*For Washing Shavings in Breweries.*



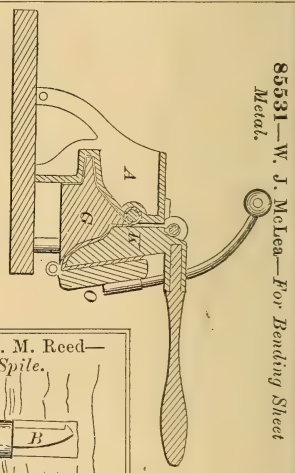

**85527**—J. H. Irwin—*Velocipede.*



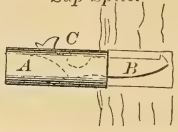

**85528**—A. Kusenberg—*Sugar Draining Machine.*



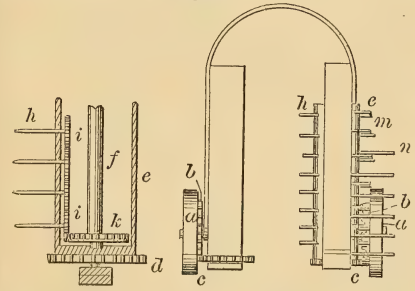

**85531**—W. J. McLea—*For Bending Sheet Metal.*



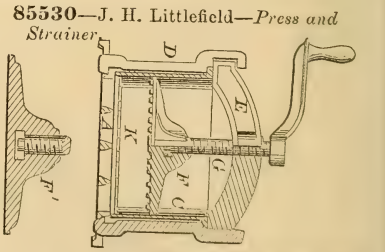

**85534**—L. M. Reed—*Sap Spile.*



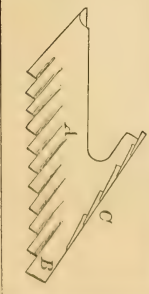

**85532**—A. Pettingill—*Cotton Picker.*




**85530**—J. H. Littlefield—*Press and Strainer.*



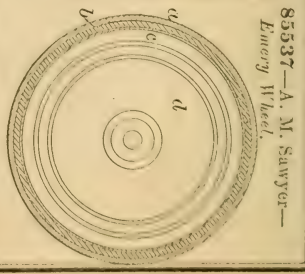

**85533**—L. M. Reed—*Ploughshare.*



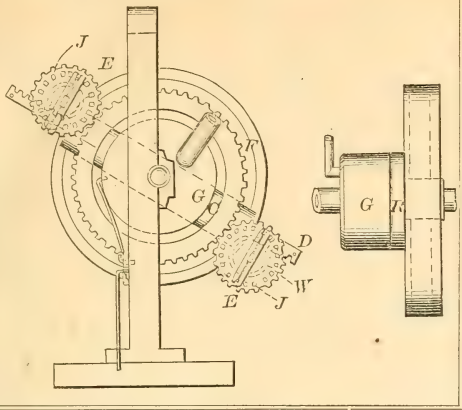

**85538**—A. M. Sawyer—*Polishing Wheel.*

**85535**—W. H. Robinson—*Button Hole for Paper Collars.*

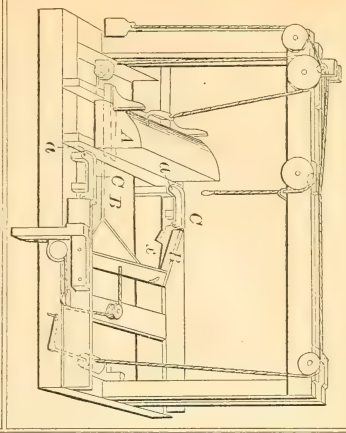
**85537**—A. M. Sawyer—*Emery Wheel.*



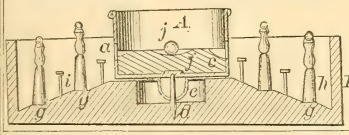
**85536**—H. Rockwell—*Steam Engine.*



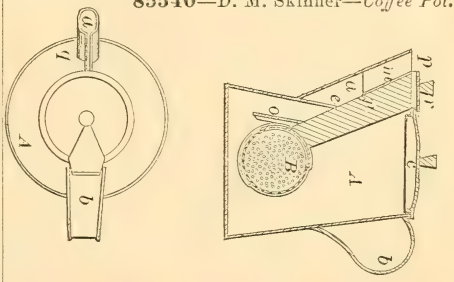

**85543**—B. R. Stevens—*Log Coating Apparatus.*



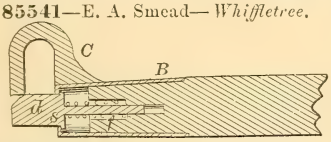

**85539**—H. Seher—*Playing Table.*



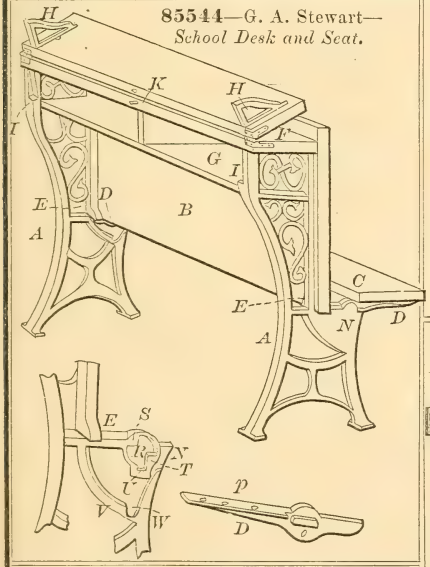

**85540**—D. M. Skinner—*Coffee Pot.*



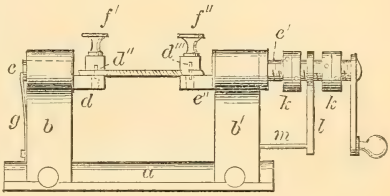

**85541**—E. A. Smead—*Whiffletree.*



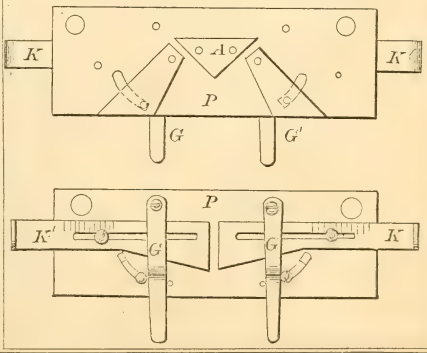

**85544**—G. A. Stewart—*School Desk and Seat.*



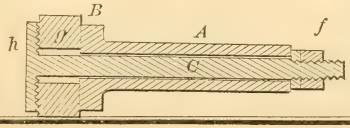

**85542**—E. W. Sperry—*For Producing Twist in Table Cutlery, Spoons, &c.*



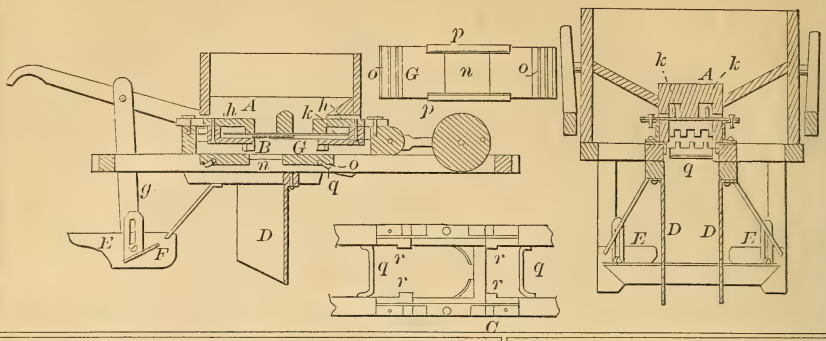

**85546**—W. A. Tangeman—*Knitting Machine.*



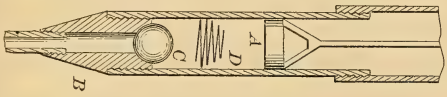

**85545**—E. Sullivan—*Reaming Tool.*



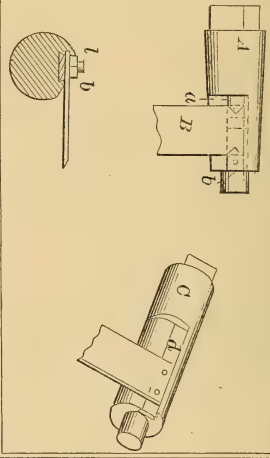
**85547**—J. L. True—*Potato Planter.*



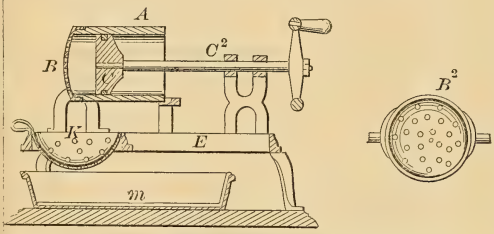
**85548**—J. Underwood—*Pump.*



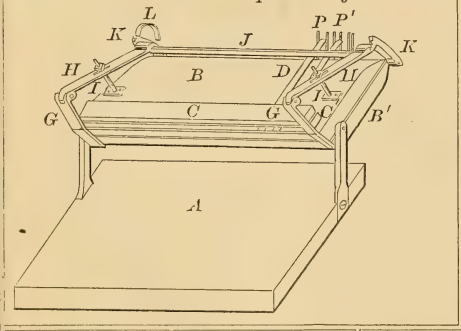
**85549**—Vose & Anderson—*Mandrel for Coiling Springs.*



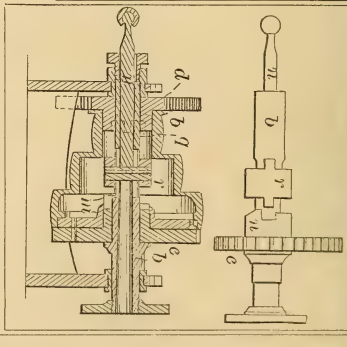
**85551**—J. T. Whipple—*Butter Worker, &c.*



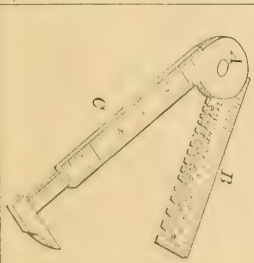
**85550**—J. J. Walser—*Paper Ruling Machine.*



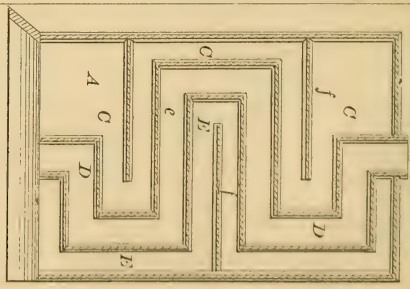
**85552**—A. E. Whitmore—*Lathe.*



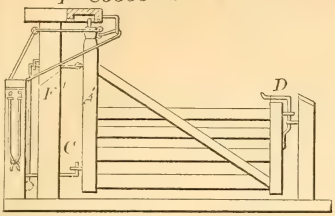
**85553**—E. A. Adams—*Caliper, Rule and Wire Gauge.*

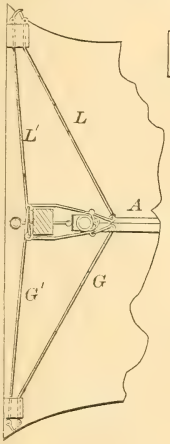


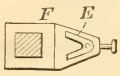
**85554**—W. Allchin—*Hot Air Drum.*



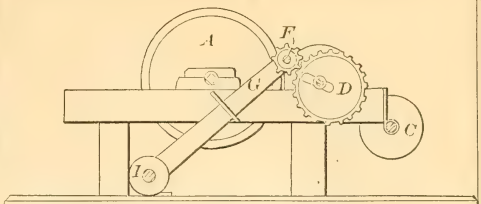
**85555**—S. S. Allen—*Gate.*



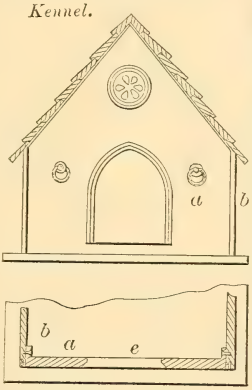



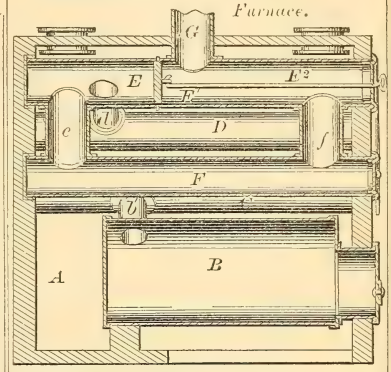

**85556**—Bennett & Vine—*Carding Machine.*

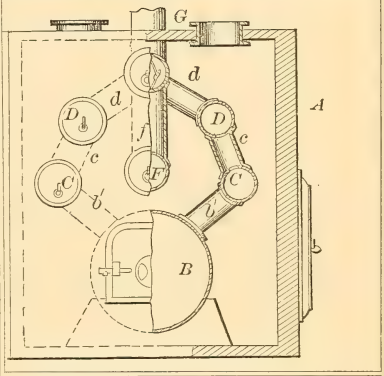



**85557**—S. S. Bent—*Dog Kennel.*

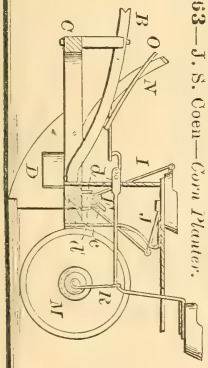



**85564**—T. E. Coles—*Hot Air Furnace.*

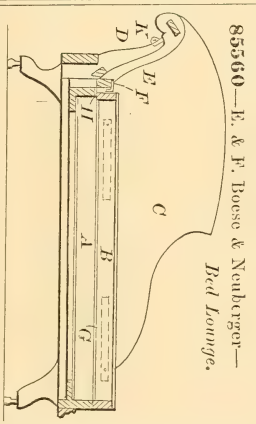


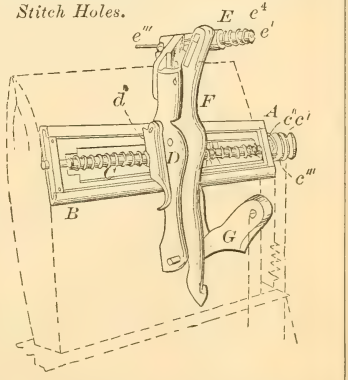

**85563**—J. S. Coen—*Corn Planter.*



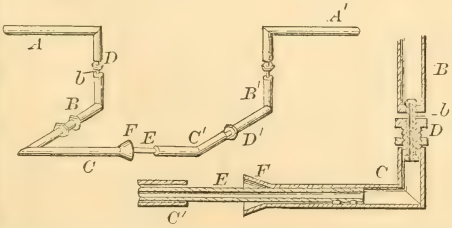

**85560**—E. & F. Boese & Neuberger—*Bed Lounge.*



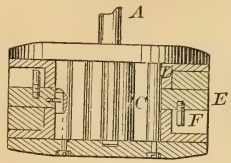

**85558**—R. Blackwood—*For Piercing Stitch Holes.*



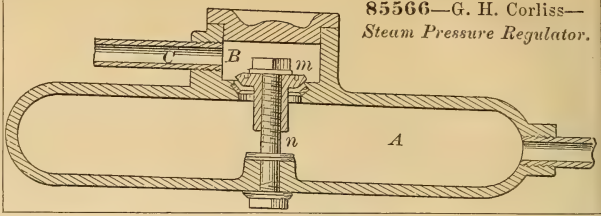

**85559**—M. S. Bolt—*Pipe Connection in Railroad Car Heaters.*



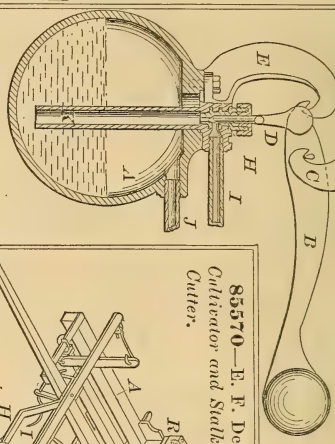
**85561**—F. A. Brown—*Piston Packing.*



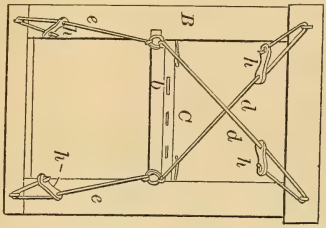

**85566**—G. H. Corliss—*Steam Pressure Regulator.*



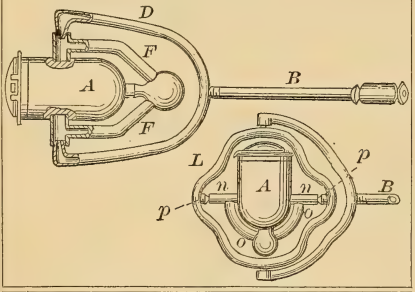

**85567**—G. H. Corliss—*Steam Trap.*



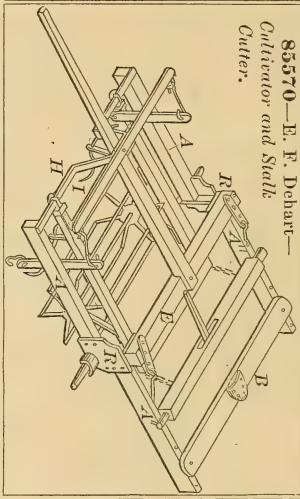

**85562**—A. J. Chase—*Clothes Dryer.*



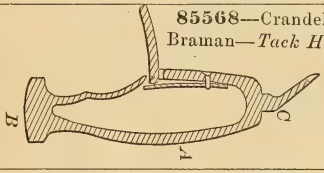

**85565**—G. Corey—*Tobacco Pipe.*



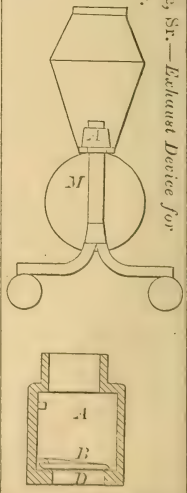

**85570**—E. F. Debart—*Cultivator and Stalk Cutter.*



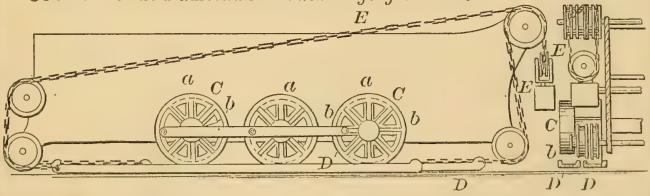

**85568**—Crandell & Braman—*Tack Hammer.*



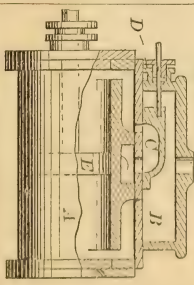

**85571**—J. Densmore, Sr.—*Exhaust Device for Locomotive Engines.*



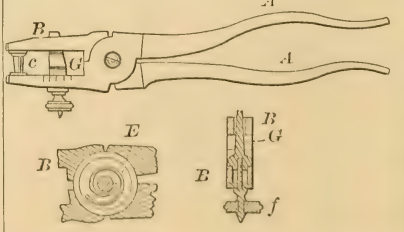

**85569**—C. de Damseaux—*Track Laying Vehicle.*



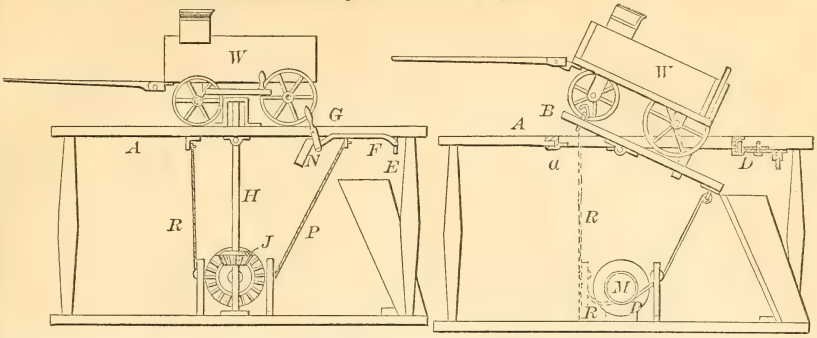

**85572**—A. L. Dewey—*Toy Steam Engine.*



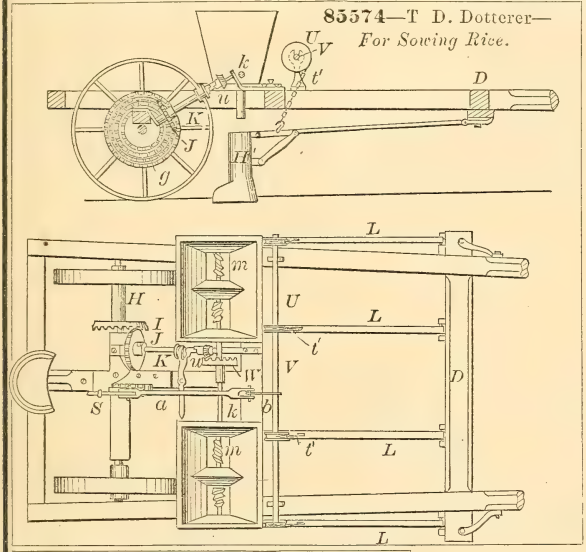

**85575**—M. D. Drake—*Belt Punch.*



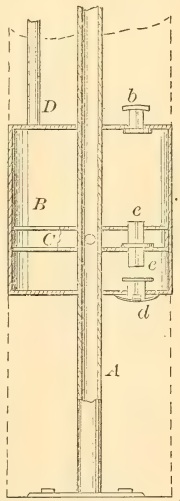
**85573**—C. S. Dole—*For Unloading Grain from Wagons.*



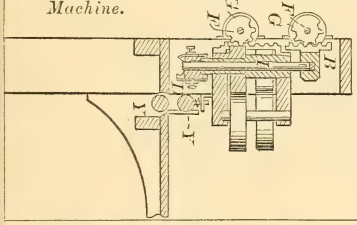

**85574**—T D. Dotterer—*For Sowing Rice.*



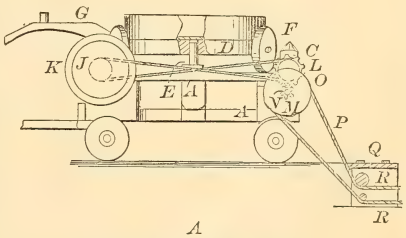

**85577**—Forrester & Luddington—*Pump.*



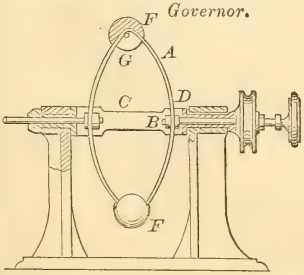

**85579**—A. J. Gibson—*Bung Cutting Machine.*

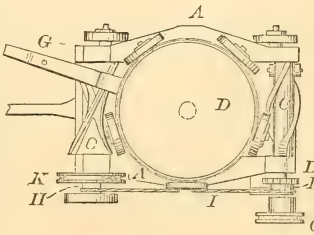



**85578**—C. F. Gay—*Horse Power.*

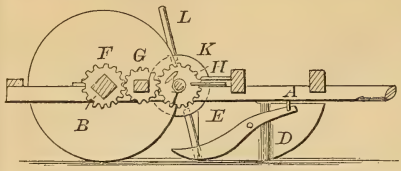



**85580**—W. W. Gilbert—*Steam Engine Governor.*

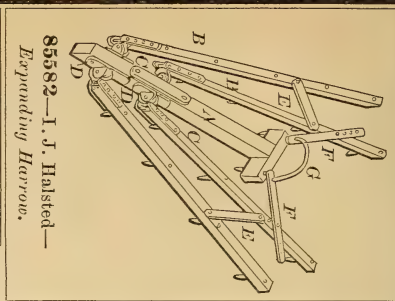


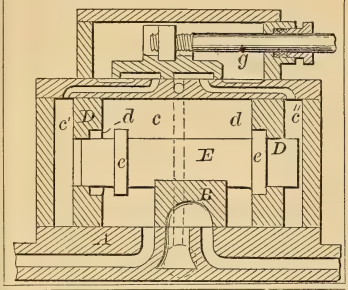
**85581**—W. B. Goodwin—*Corn Planter.*



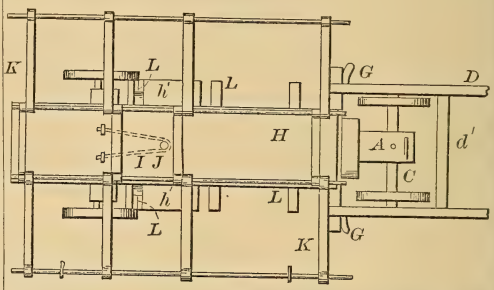

**85582**—I. J. Halsted—*Expanding Harrow.*



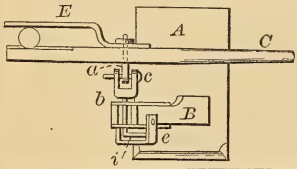

**85583**—R. Hardie—*Slide Valve.*

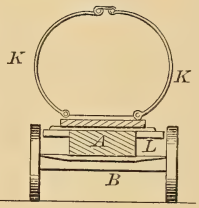



**85585**—H. Harris—*Corn Harvester.*

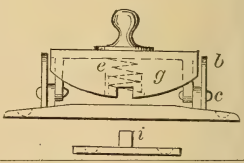



**85587**—A L. & W. A. Hatch—*Hop Pole Puller.*

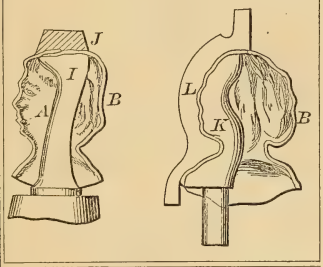


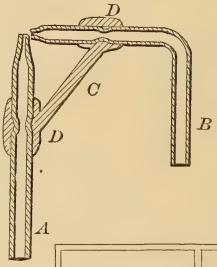

**85586**—H. Haslam—*Sash Fastener.*



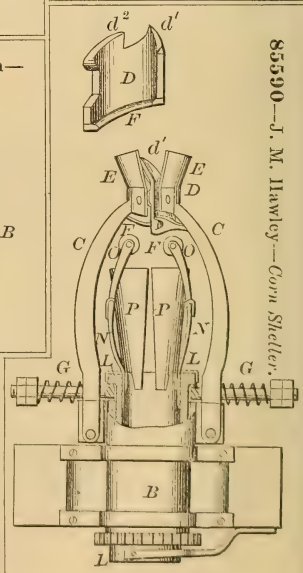

**85589**—G. H. Hawkins—*Manufacture of Dolls' Heads.*



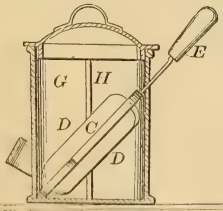

**85596**—W. K. Leach—*Atomizing Tube.*



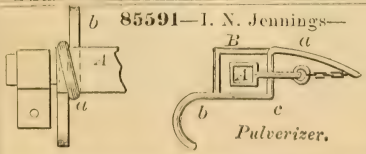

**85590**—J. M. Hawley—*Corn Sheller.*




**85594**—J. King—*Churn.*

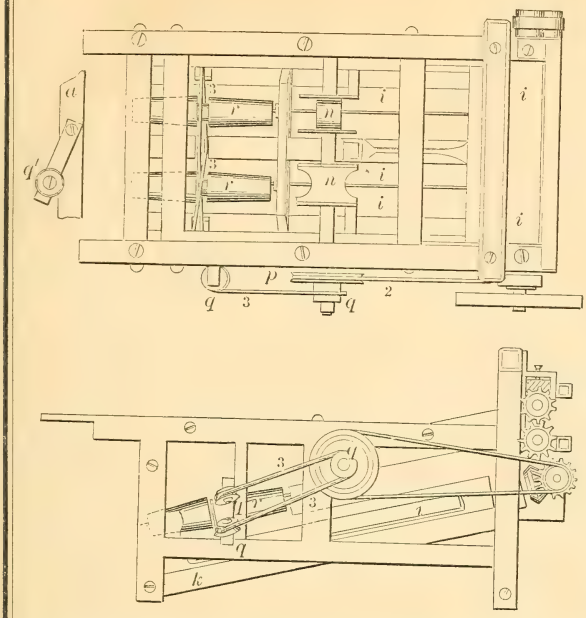



**85591**—I. N. Jennings—*Pulverizer.*

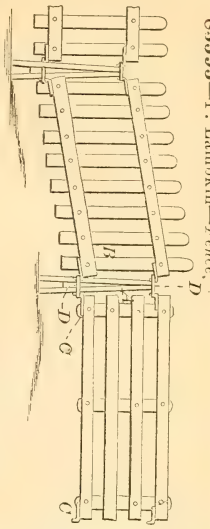



**85588**—J. T. Haviland—*Bottle Stopper*

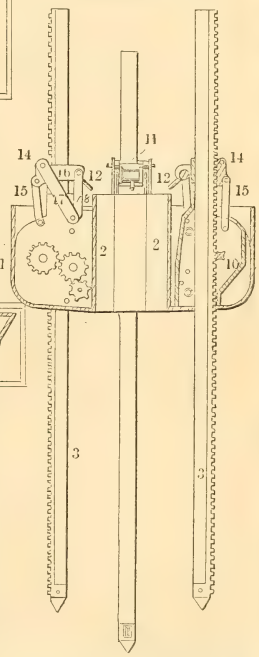
**85593**—W. D. Jones—*Corn Husking Machine.*



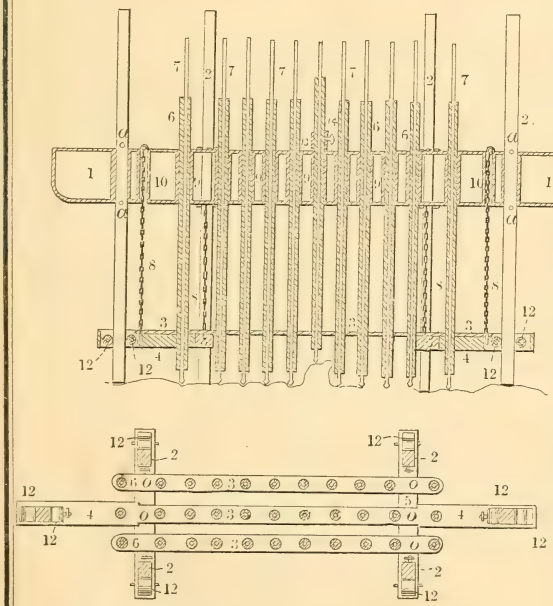
**85595**—P. Lambkin—*Fence.*



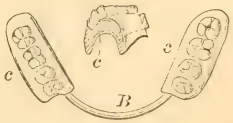
**85598**—S. Lewis—*Still Water Dam.*



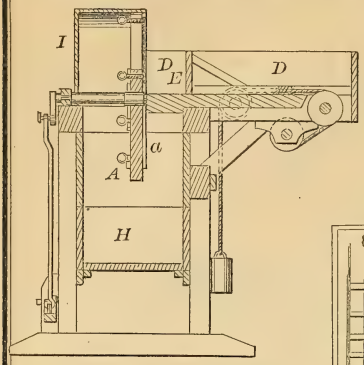
**85597**—S. Lewis—*Subaqueous Drilling Machine.*



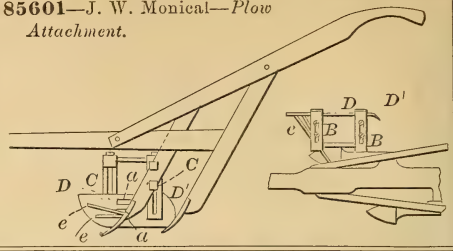
**85600**—W. C. Michaelis—*Mounting for Artificial Teeth.*



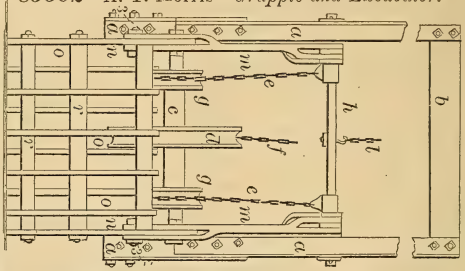
**85599**—S. Markel—*Vegetable Slicer.*



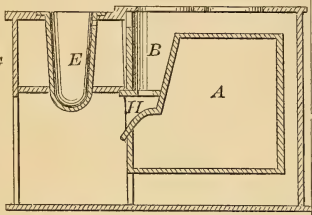

**85601**—J. W. Monical—*Plow Attachment.*



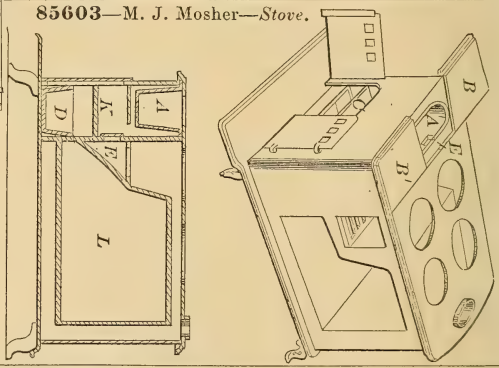

**85602**—A. T. Morris—*Grapple and Excavator.*



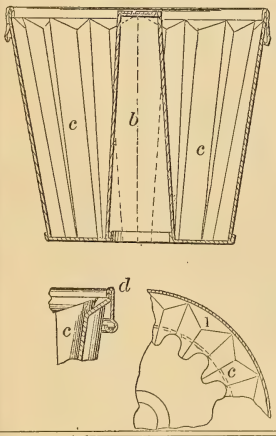

**85604**—M. J. Mosher—*Stove.*



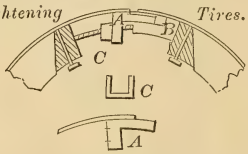

**85603**—M. J. Mosher—*Stove.*



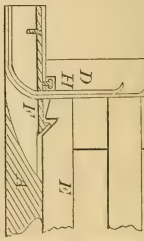

**85605**—J. Musgrove—*Pudding Mould.*



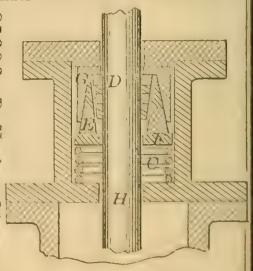

**85608**—H. & H. Pearson—*For Tightening Tires.*

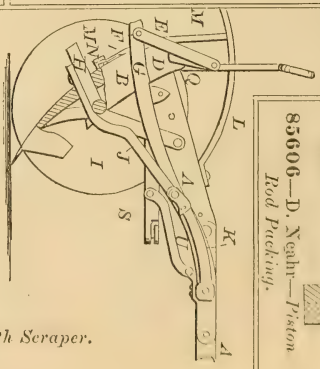


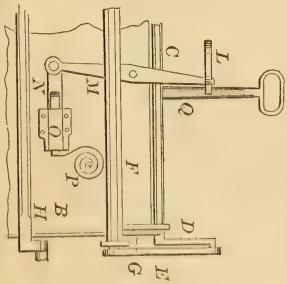

**85607**—H. S. Otis—*Gate.*




**85606**—D. Nagler—*Piston Rod Packing.*

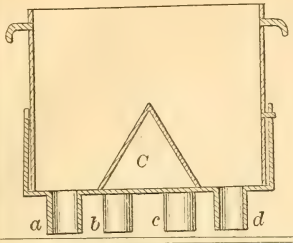


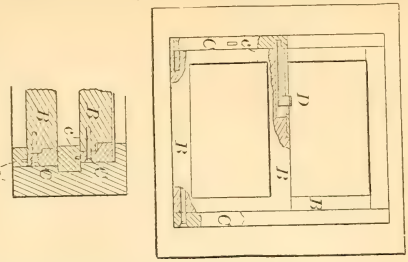




**85609**—N. Peck—*Earth Scraper.*

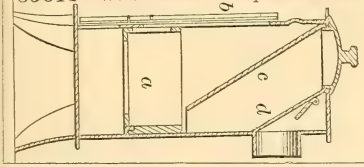
**85610**—C. R. & B. A. Peden—*Grain Toller.*



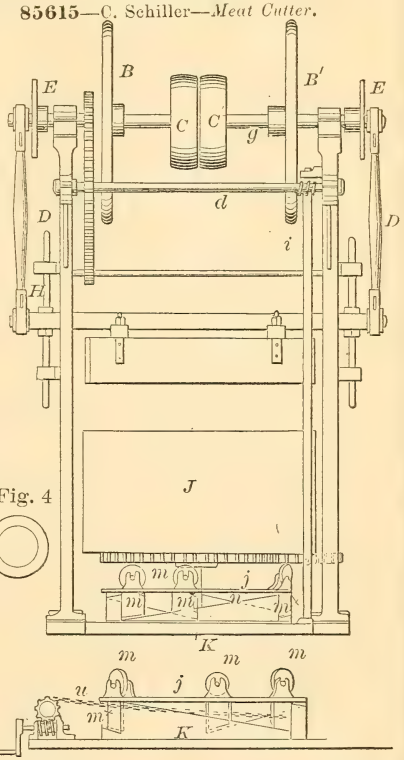

**85611**—Perkins, Bogert & Lowell—*Window Sash.*



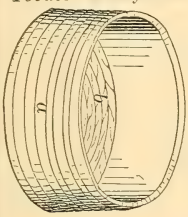
**85614**—W. Sanford—*Fireplace Heater.*



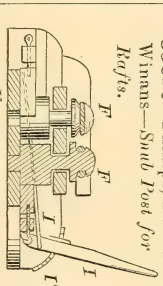

**85615**—C. Schiller—*Meat Cutter.*



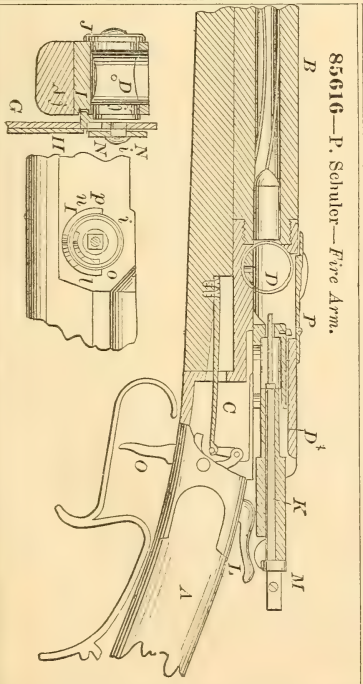

**85613**—W. & D. Rinehart—*Tobacco Manufacture.*



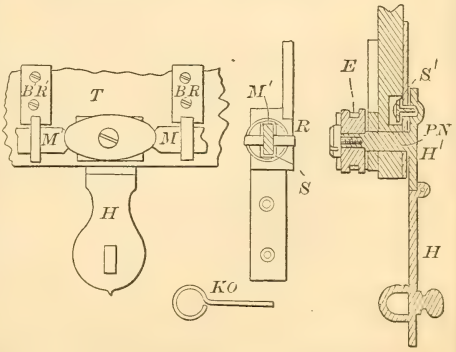
**85612**—Phillips, Dunham & Winans—*Sand Post for Rafts.*



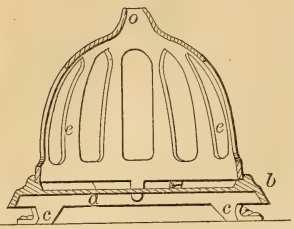

**85616**—P. Schuler—*Fire Arm.*



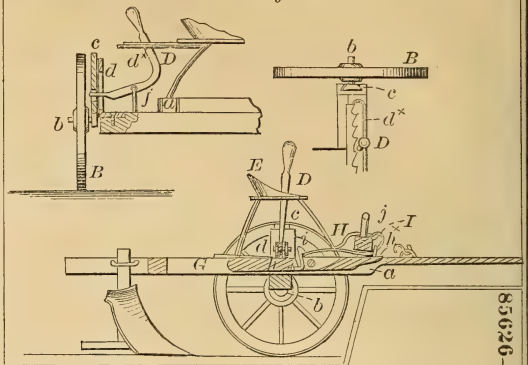

**85617**—H. Simons—*Trunk Bolt.*



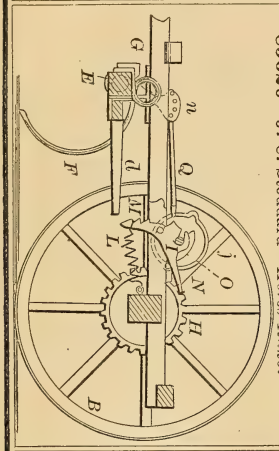
**85618**—R. L. Smith—*Twine Holder.*



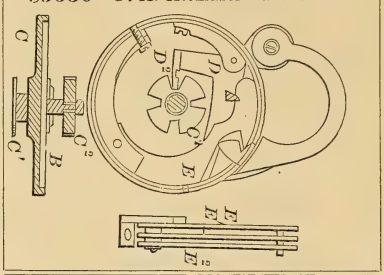
**85621**—Z. T. Sweet—*Gang Plow.*



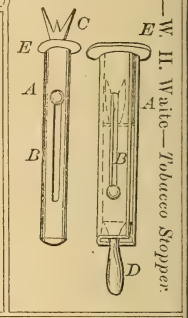
**85620**—J. C. Stoddard—*Horse Rake.*



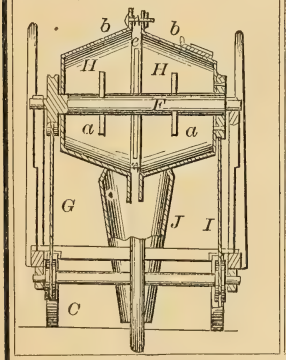
**85630**—P. A. Altmaier—*Padlock.*



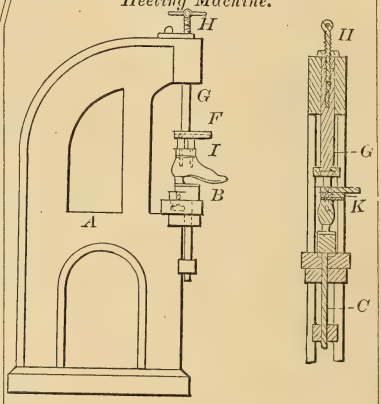
**85626**—W. H. Waite—*Tobacco Stopper.*



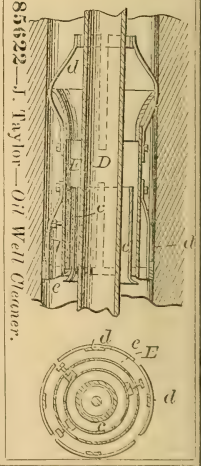
**85619**—J. L. Stegall—*For Sowing Pulverulent Manures.*



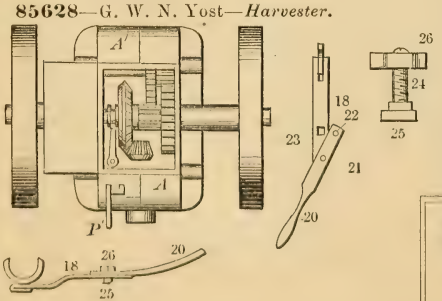
**85625**—Trask & Eldridge—*Shoe Heeling Machine.*



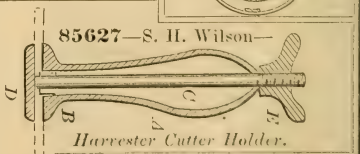
**85622**—J. Taylor—*Oil Well Cleaner.*



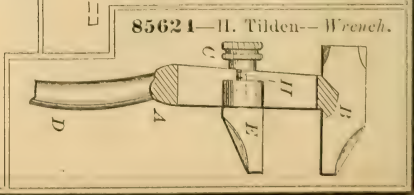
**85628**—G. W. N. Yost—*Harvester.*



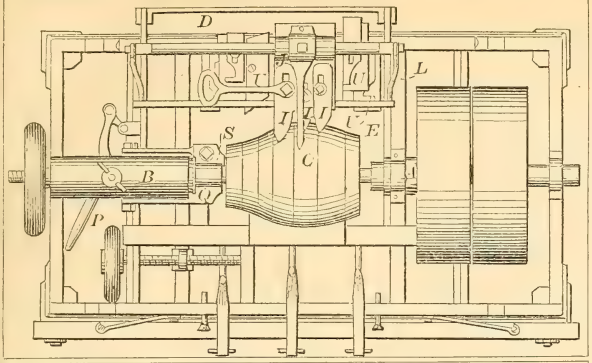
**85627**—S. H. Wilson—*Harvester Cutter Holder.*



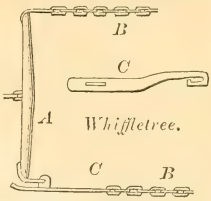
**85624**—H. Tilden—*Wrench.*



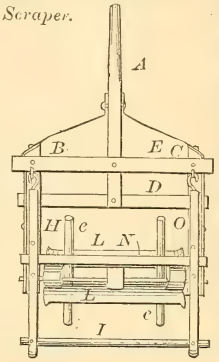
85629—Zufelt & Craig—*Hub Turning Machine.*



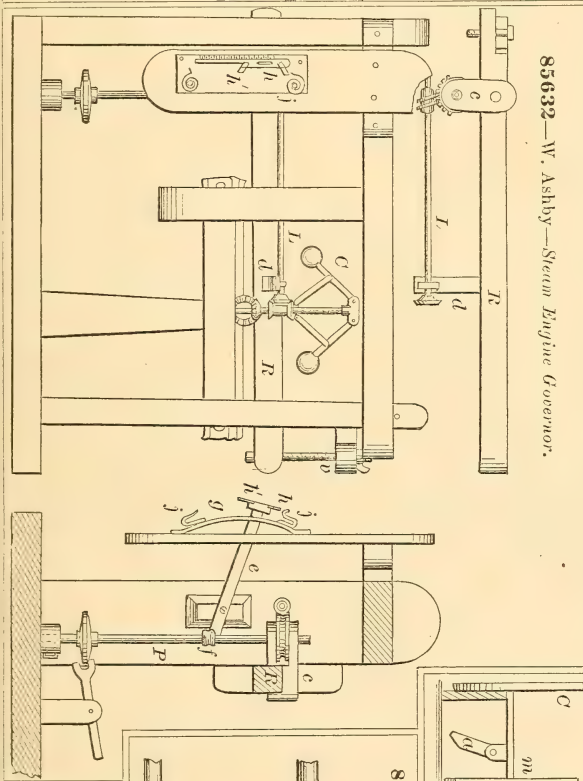

85631—S. H Anderson—



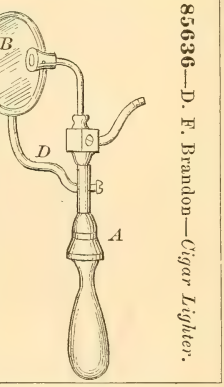

85635—I. W. Boatman—*Scraper.*



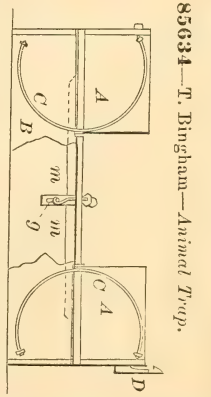

85632—W. Ashby—*Steam Engine Governor.*

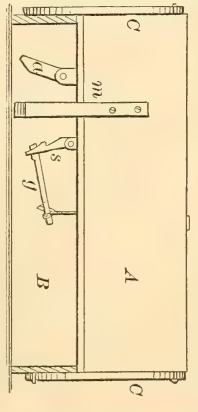



85636—D. F. Brandon—*Cigar Lighter.*

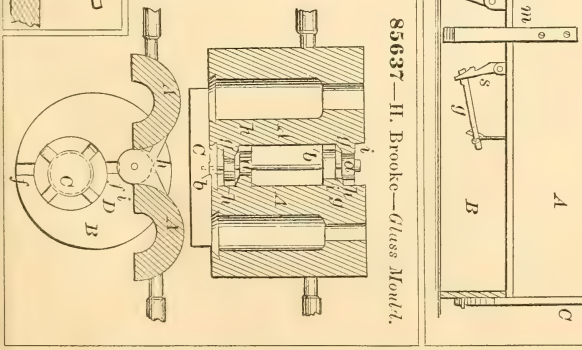



85634—T. Bingham—*Animal Trap.*

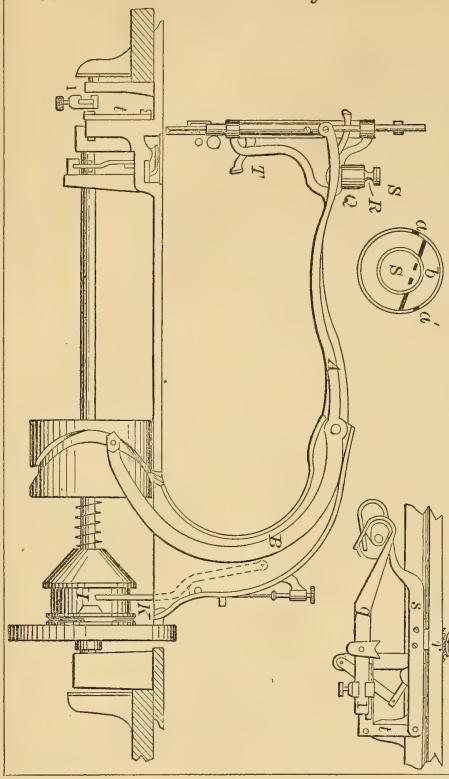


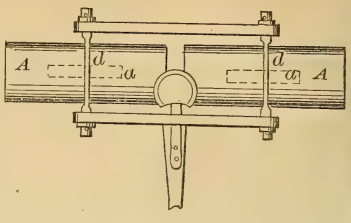

85637—H. Brooke—*Glass Mould.*



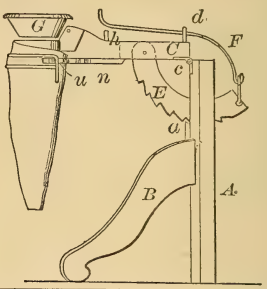
**85633**—M. M. Barnes—*Sewing Machine.*

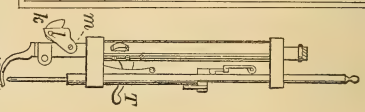


**85641**—E. P. H. Capron—*Land Roller.*

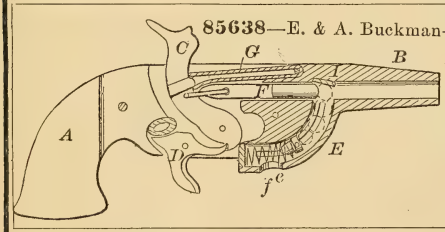


**85643**—S. P. Clemons—*Bag Holder.*

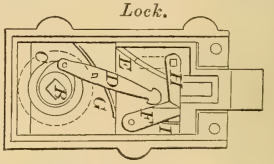




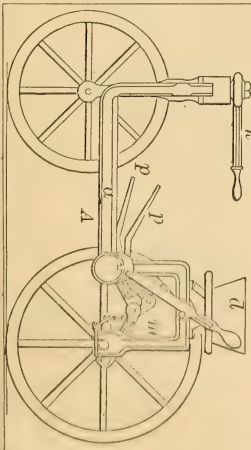
**85638**—E. & A. Buckman—*Toy.*



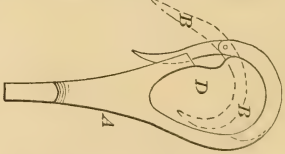
**85644**—W. H. Cloud—*Latch and Lock.*



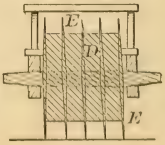
**85640**—C. Callaghan—*Velocipede.*

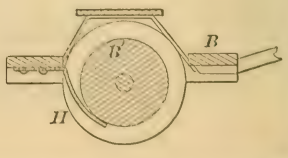


**85646**—P. Dolan—*Snap.*

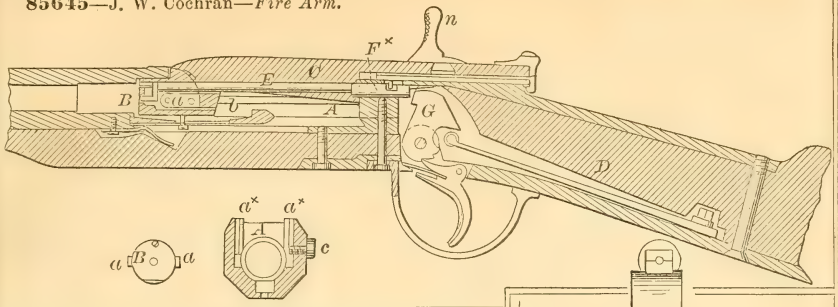


**85639**—W. M. Bush—*For Pulverizing Earth.*

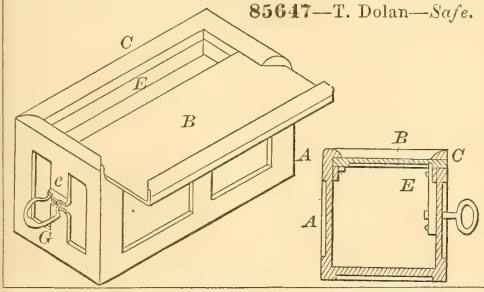




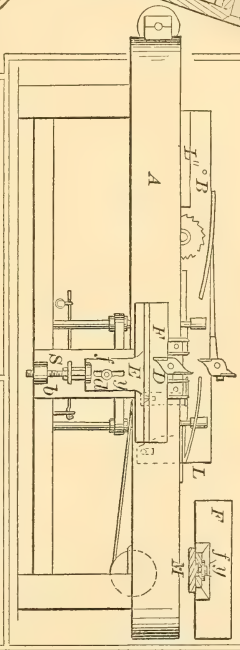
**85645**—J. W. Cochran—*Fire Arm.*



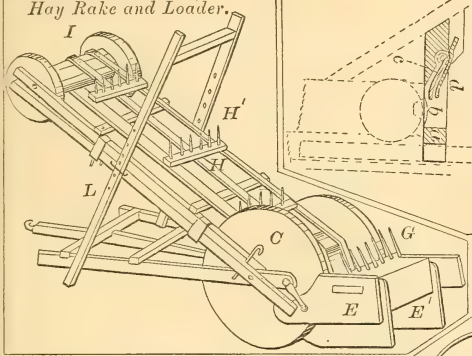

**85647**—T. Dolan—*Safe.*



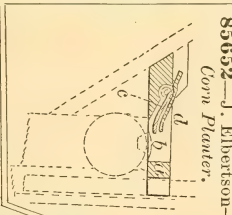

**85648**—J. H. Draper—*Planing Machine.*



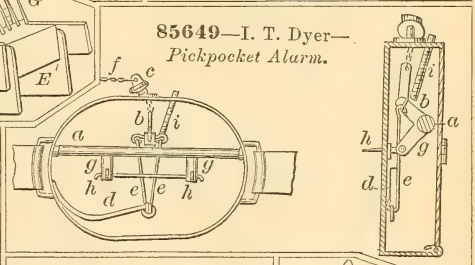

**85651**—Elarton & Thomas—*Hay Rake and Loader.*



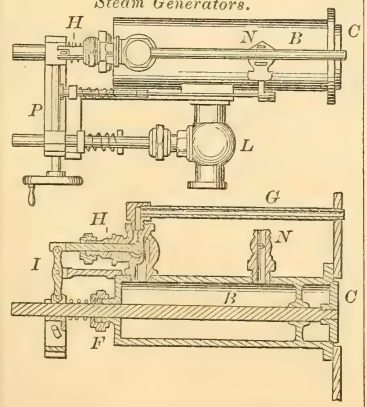

**85652**—J. Elbertson—*Corn Planter.*



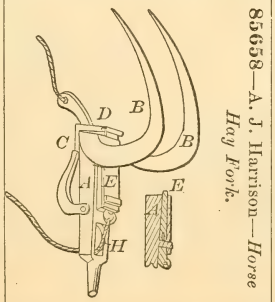

**85649**—I. T. Dyer—*Pickpocket Alarm.*



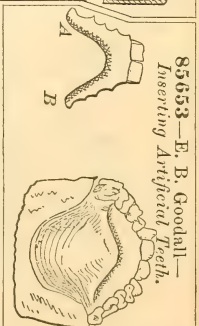

**85655**—H. Griffing—*For Feeding Steam Generators.*



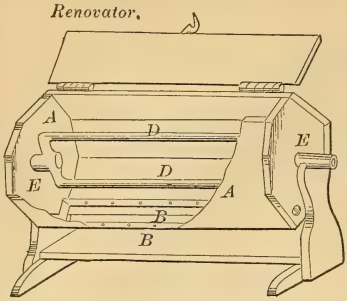

**85658**—A. J. Harrison—*Horse Hay Fork.*



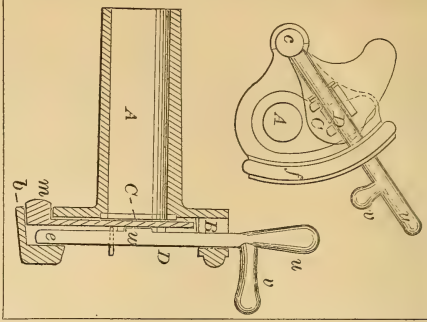

**85653**—E. B. Goodall—*Inserting Artificial Teeth.*



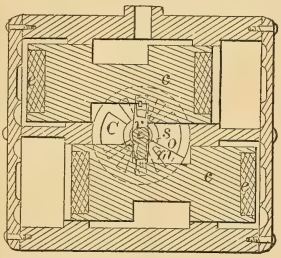
**85654**—Graves & Crandall—*Feather Renovator.*

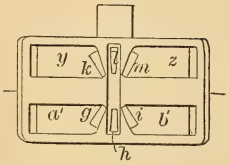


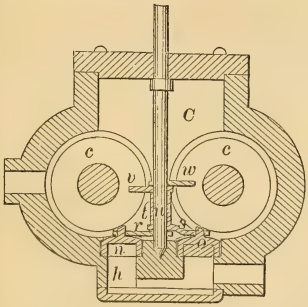

**85660**—J. Hegarty—*Molasses Gate.*



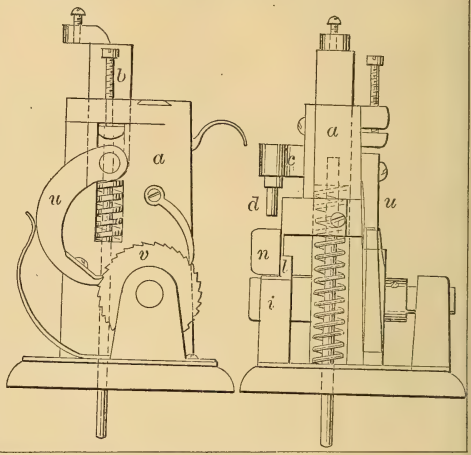

**85656**—J. Harris—*Fluid Meter.*



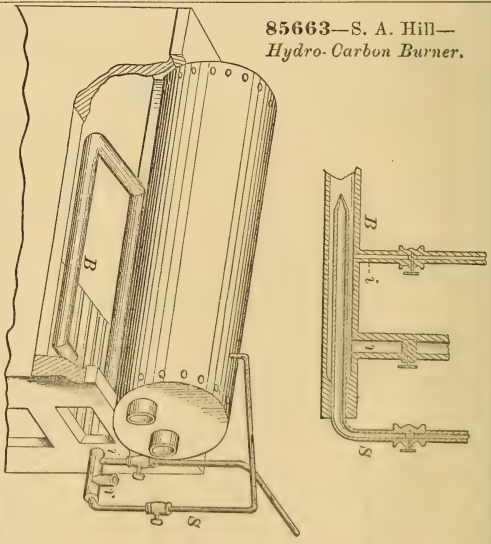



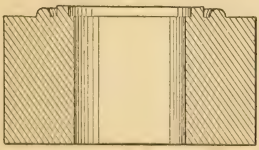

**85661**—C. H. Helms—*Punching Leather Stock.*



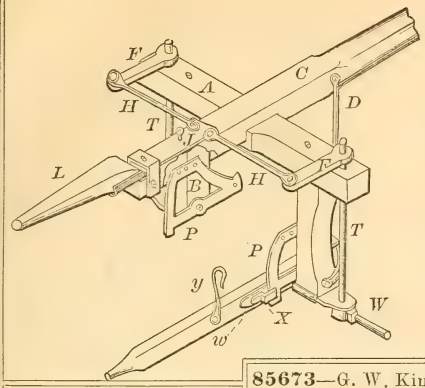

**85663**—S. A. Hill—*Hydro-Carbon Burner.*



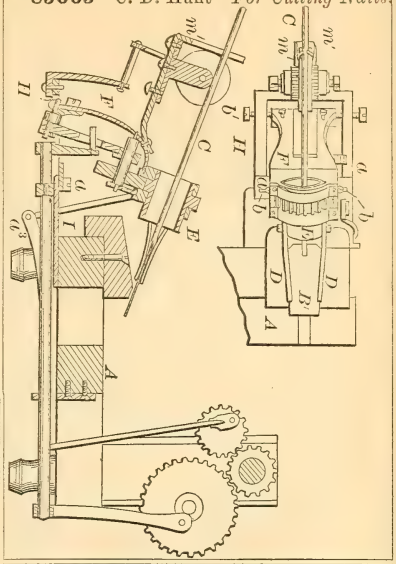

**85664**—C. Horel—*Stove Pipe Thimble.*



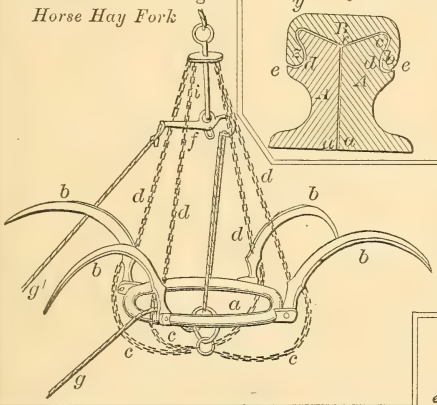
**85662**—R. H. Henry—*Cultivator.*




**85665**—C. D. Hunt—*For Cutting Nails.*



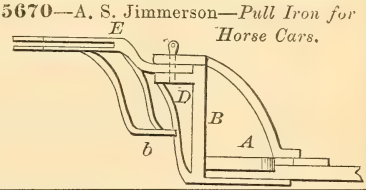

**85669**—J. Jennings—*Horse Hay Fork*



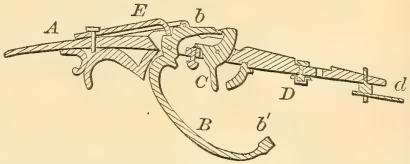

**85673**—G. W. King—*Railway Rail.*



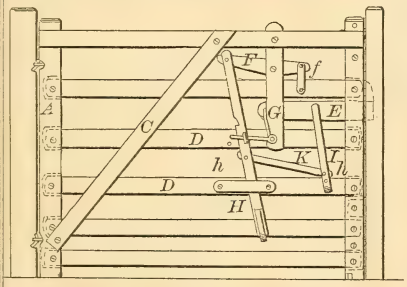

**85670**—A. S. Jimmerson—*Pull Iron for Horse Cars.*



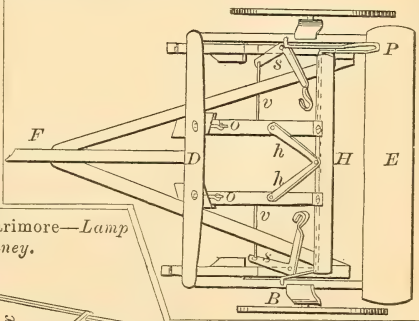

**85672**—J. Kelsay—*Gun Lock.*



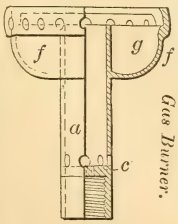

**85674**—D. L. Koons—*Farm Gate.*



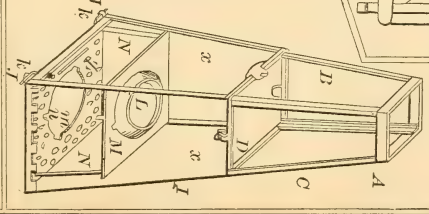

**85675**—G. W. Kring—*Cultivator.*



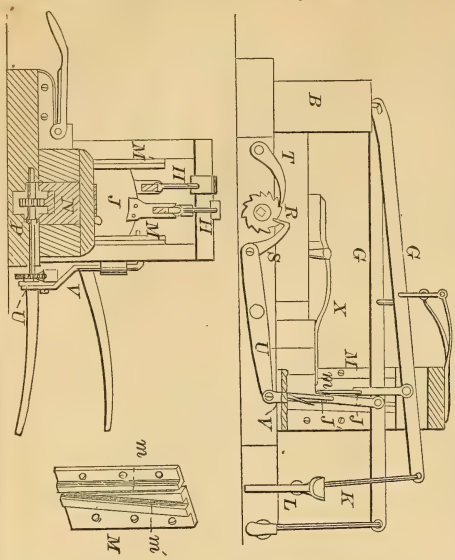

**85671**—W. Jones—*Aero-Gas Burner.*



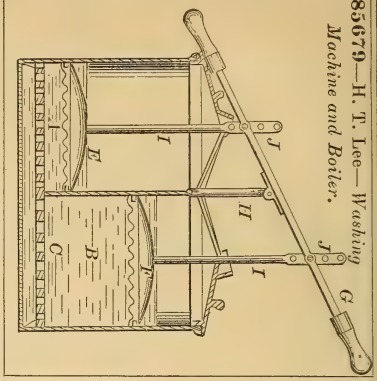

**85677**—J. W. Larimore—*Lamp Chimney.*



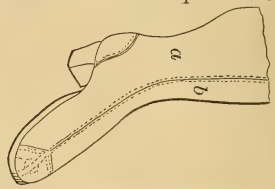
**85676**—I. I. Lancaster—*Shingle Machine.*



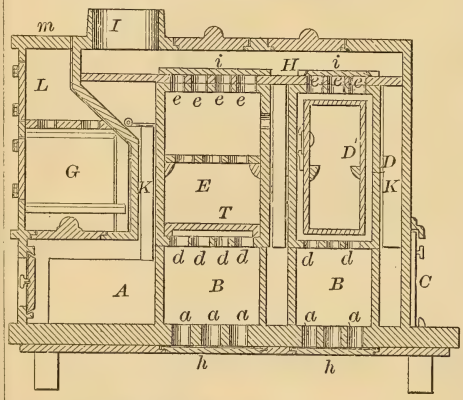
**85679**—H. T. Lee—*Washing Machine and Boiler.*

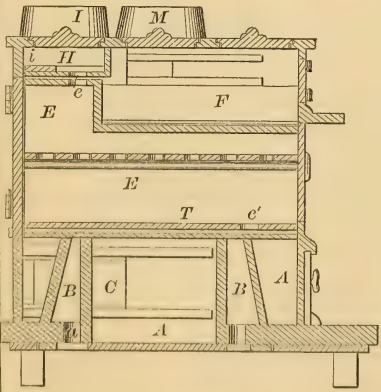


**85681**—L. O. Makepeace—*Boot.*

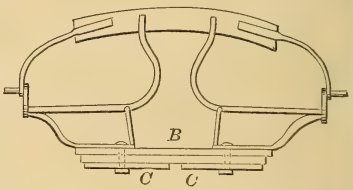


**85678**—D. S. Leavitt—*Cooking Stove.*

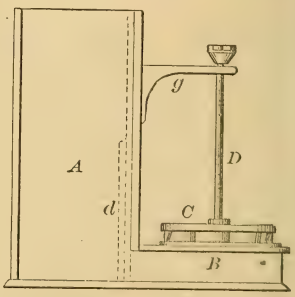


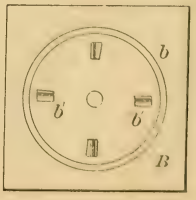


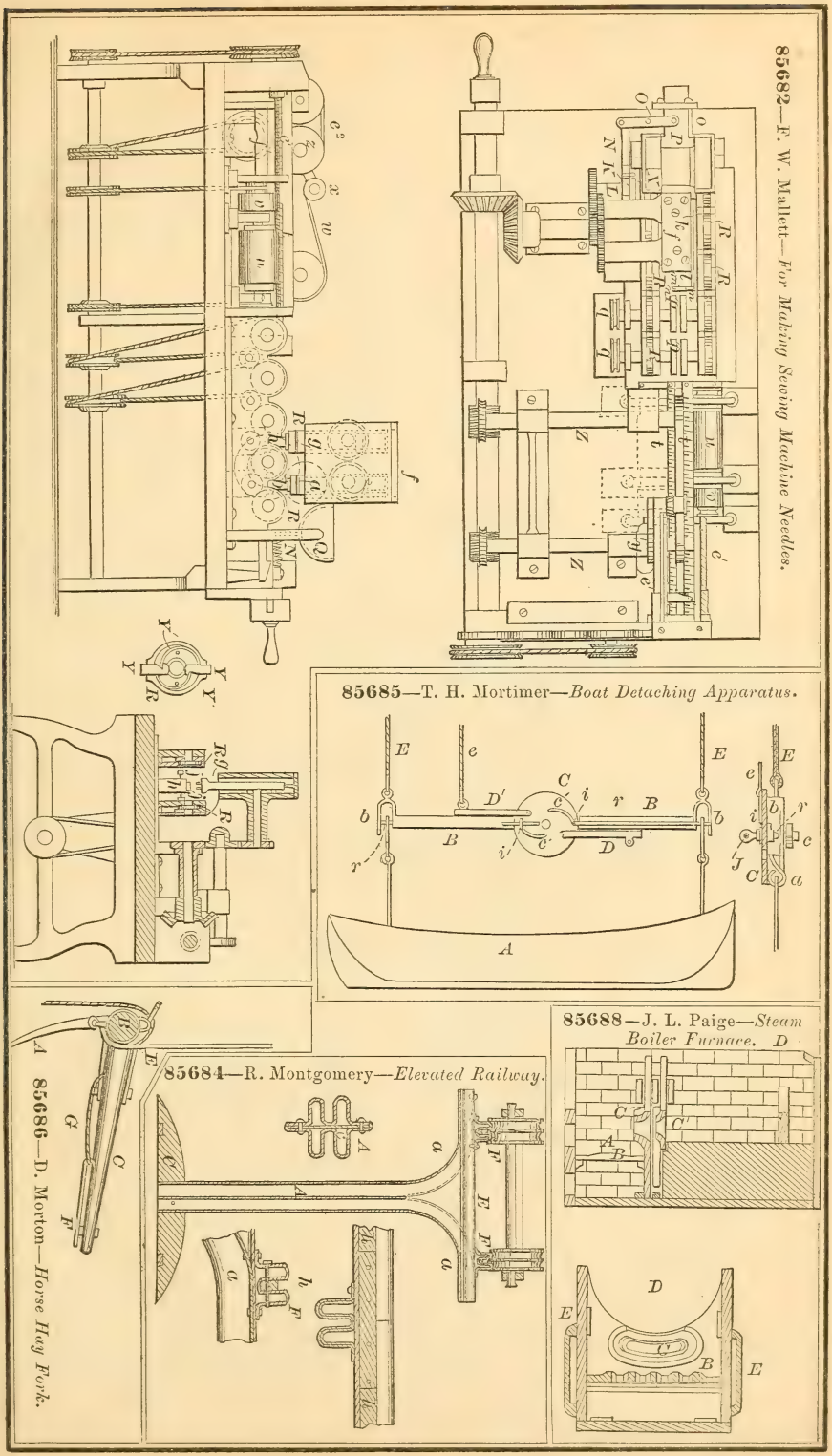
**85680**—G. R. Lucas—*Shifting Carriage Top.*



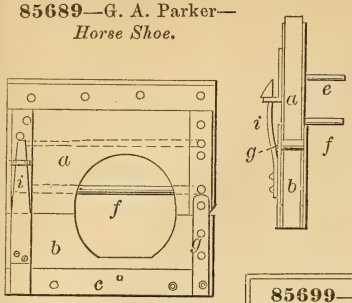
**85683**—E. W. McGuire—*Water Wheel.*



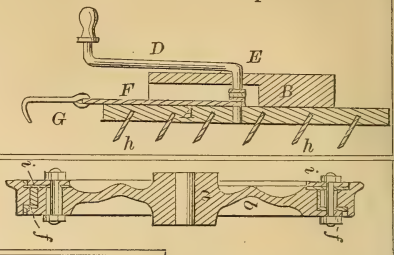



85682—F. W. Mallett—For Making Sewing Machine Needles.
85685—T. H. Mortimer—Boat Detaching Apparatus.
85684—R. Montgomery—Elevated Railway.
85688—J. L. Paige—Steam Boiler Furnace.
85686—D. Morton—Horse Hay Fork.

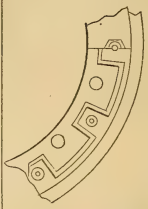
**85689**—G. A. Parker—*Horse Shoe.*



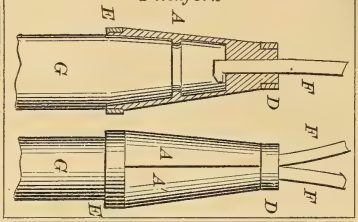

**85690**—S. Pennock—*Carpet Stretcher.*



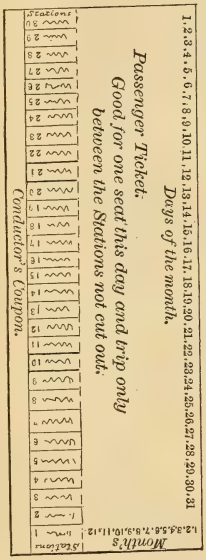

**85693**—J. Raddin—*Car Wheel for Railways.*



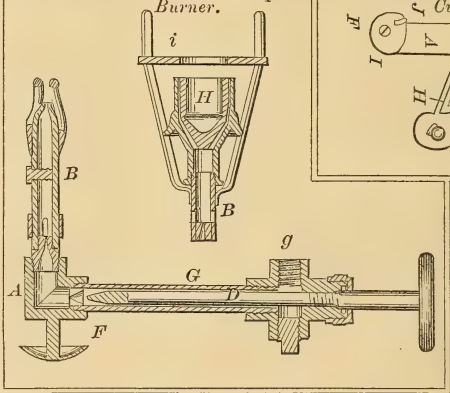
**85699**—Schuyler & Crownshield—*Pitchfork*



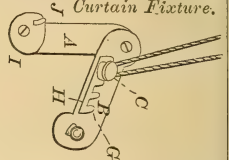

**85692**—W. E. Prall—*Railroad Ticket.*



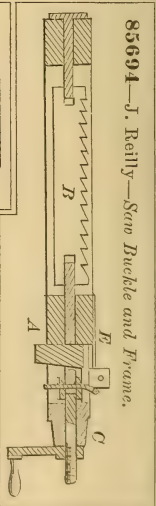

**85698**—H. S. Saroni—*Vapor Burner.*



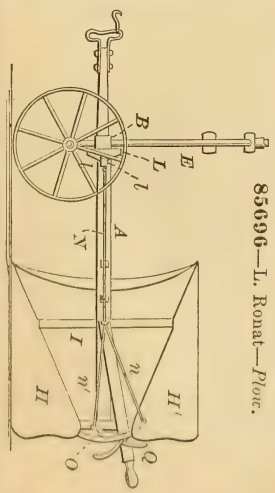

**85695**—C. J. Roberts—*Curtain Fixture.*



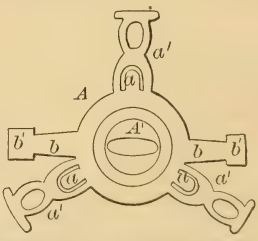

**85694**—J. Reilly—*Saw Buckle and Frame.*



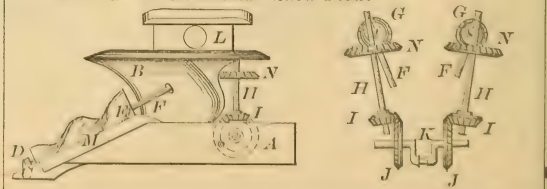

**85696**—L. Ronat—*Plow.*



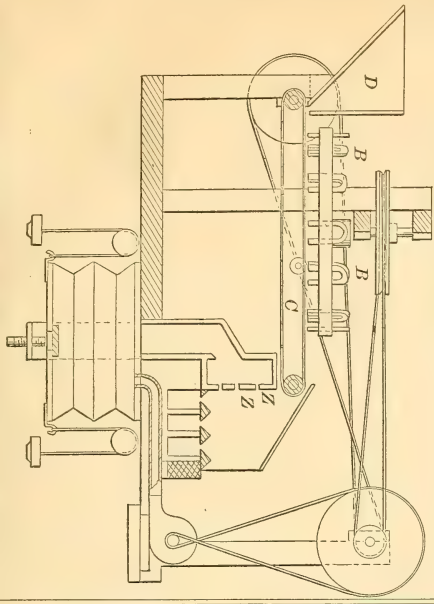

**85697**—J. F. Sanford—*Lamp Burner.*



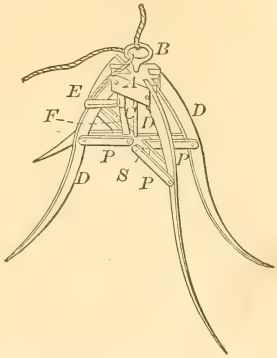

**85691**—W. A. Plantz—*Snow Plow.*



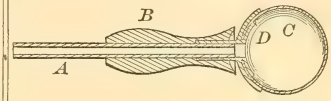
**85700**—E. L. Seymour—*For Separating and Concentrating Ores.*



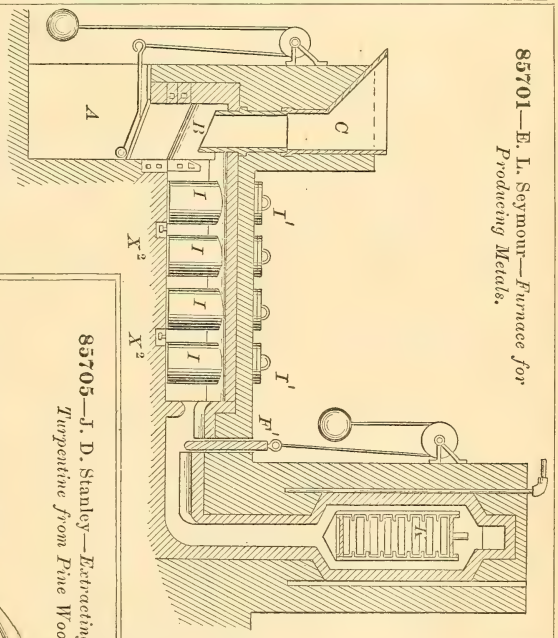

**85702**—R. S. Sheldon—*Horse Hay Fork.*



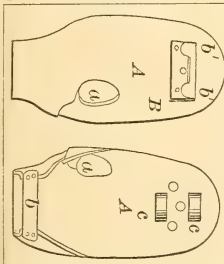

**85704**—Snow & Coe—*Toy Gun.*



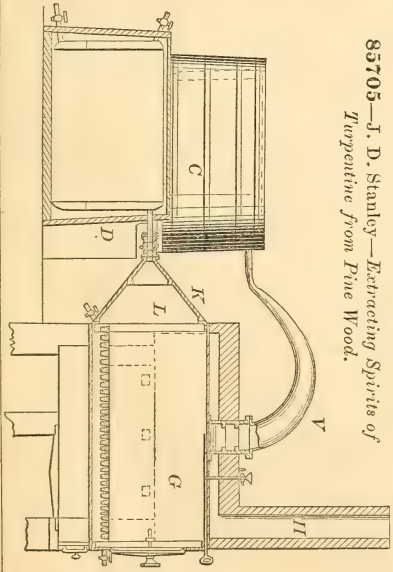

**85701**—E. L. Seymour—*Furnace for Producing Metals.*



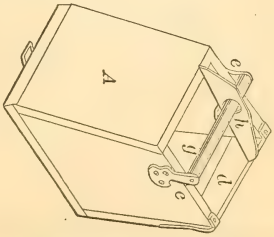

**85707**—J. H. Titus—*Husking Glove.*



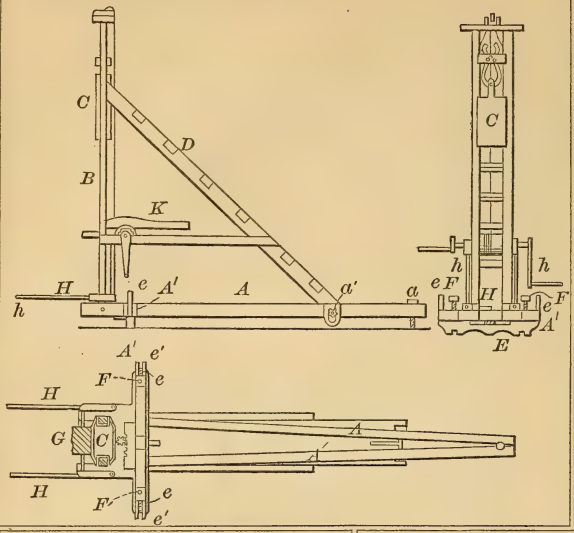

**85705**—J. D. Stanley—*Extracting Spirits of Turpentine from Pine Wood.*



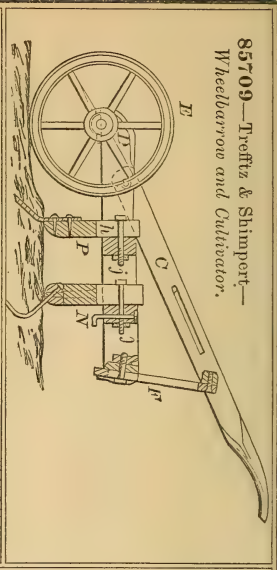

**85706**—J. H. Teahl—*Dry Measure.*



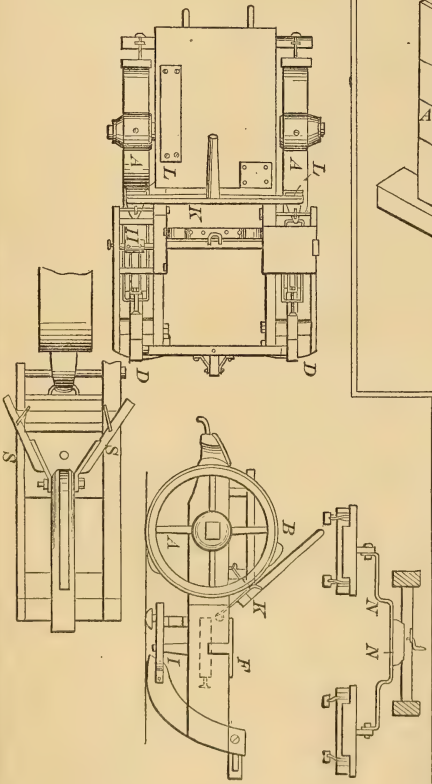
**85703**—J. J. Simons—*Pile Driver.*



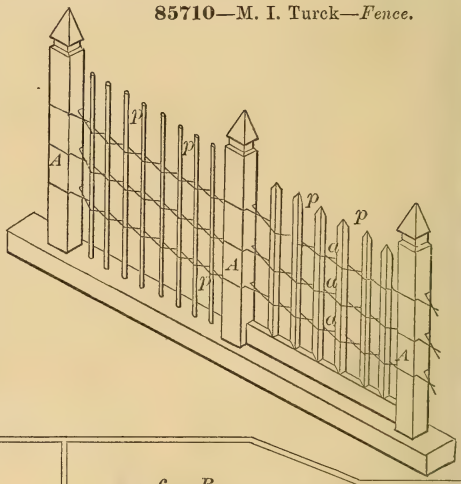

**85709**—Treffiz & Shimpert—*Wheelbarrow and Cultivator.*



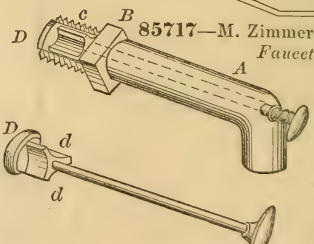

**85711**—S. B. Ward—*Seed Planter.*



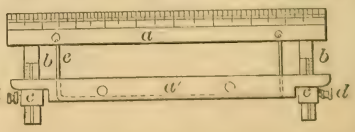

**85710**—M. I. Turck—*Fence.*



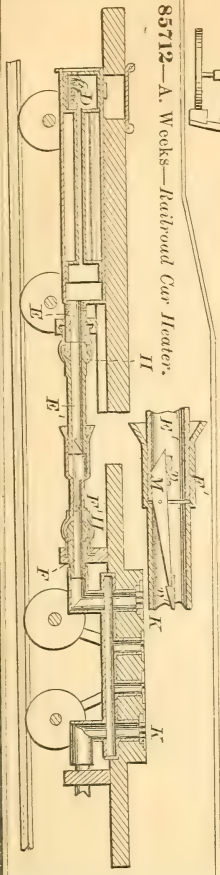

**85717**—M. Zimmerman—*Faucet.*



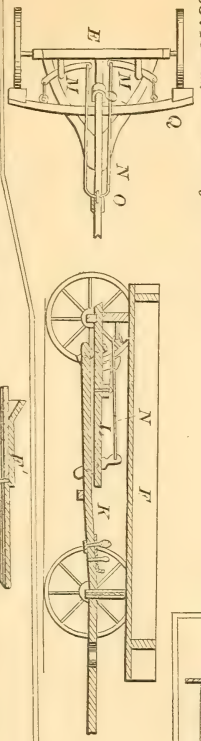

**85708**—F. A. Traut—*Parallel Ruler.*



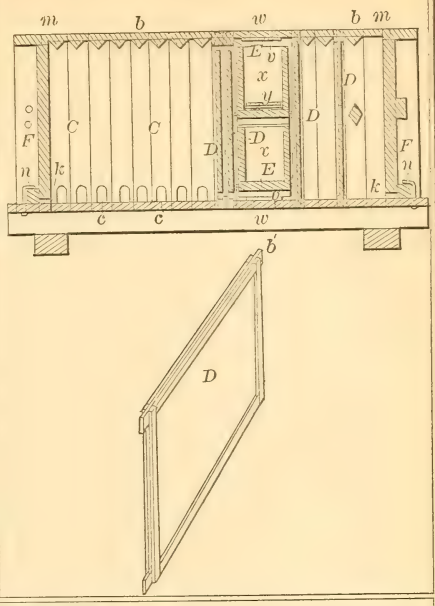
85712—A. Weeks—*Railroad Car Heater.*



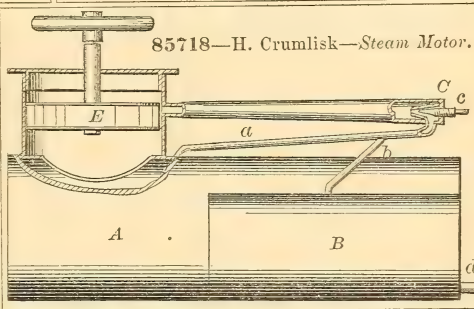
85715—L. Wolf—*Wagon Brake.*



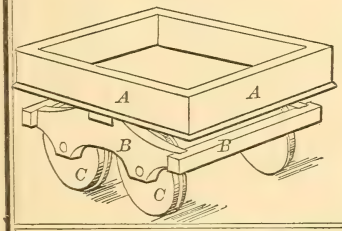
85716—A. T. Wright—*Beehive.*



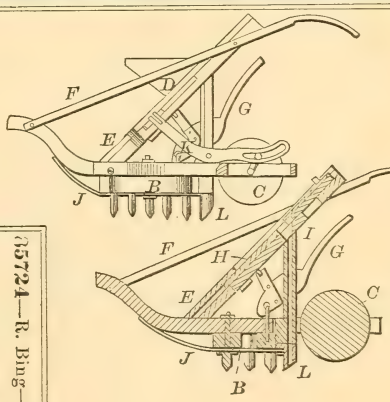
85718—H. Crumlisk—*Steam Motor.*



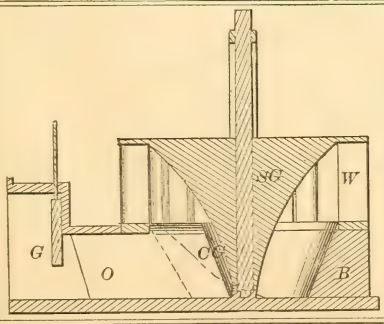
85720—P. H. Watson—*Railway Car.*



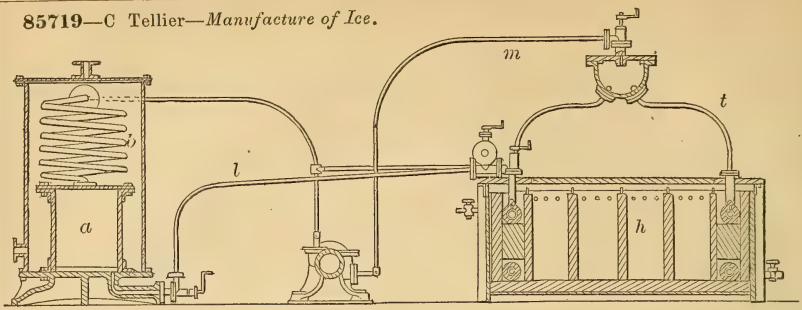
85721—E. J. Ashburn—*Corn Planter.*

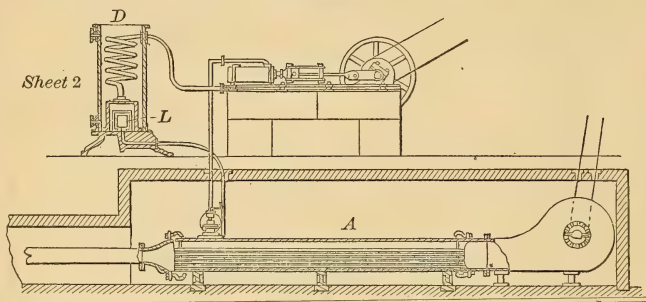


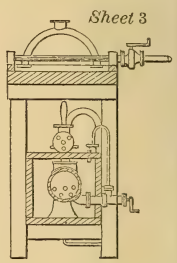
85724—R. Bing—*Water Wheel.*



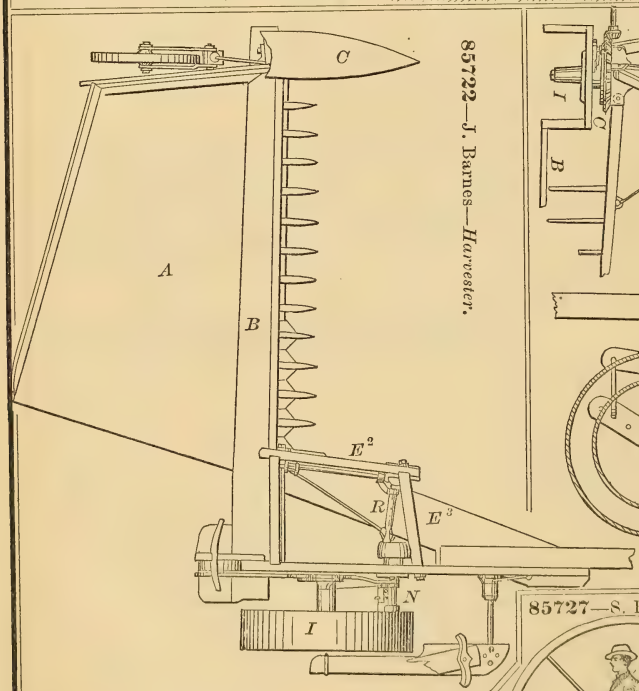
**85719**—C Tellier—*Manufacture of Ice.*



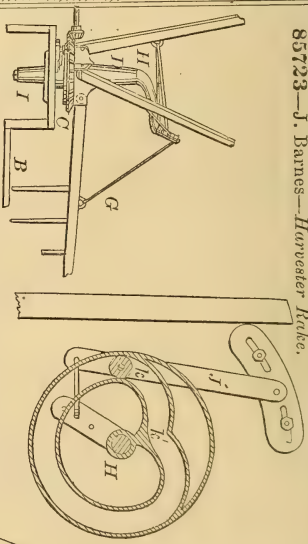



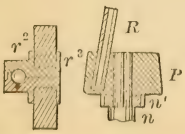

**85722**—J. Barnes—*Harvester.*

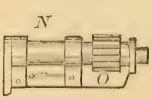



**85723**—J. Barnes—*Harvester Rake.*

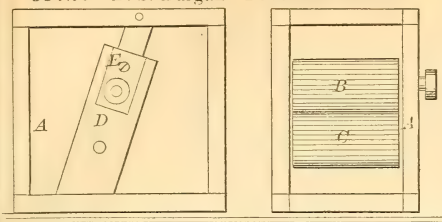



**85727**—S. E. Cleveland—*Toy Hoop.*

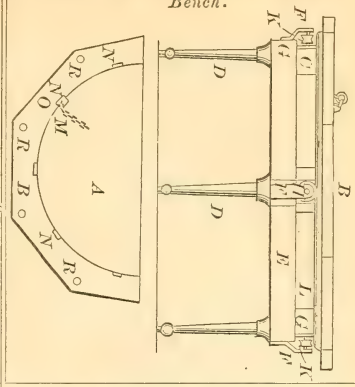


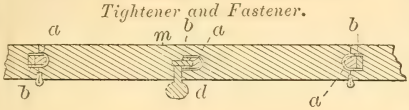
**85725**—B. S. Burgan—*Flax Boll Brake.*



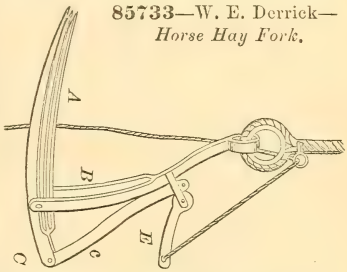

**85731**—W. Culveyhouse—*Tinners' Bench.*



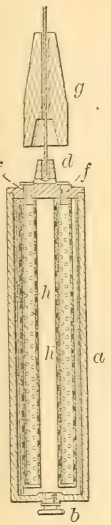

**85729**—D. Conlon—*Door and Window Tightener and Fastener.*



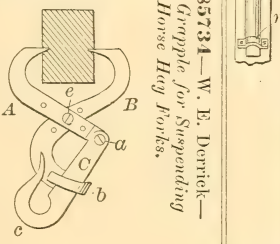
**85733**—W. E. Derrick—*Horse Hay Fork.*



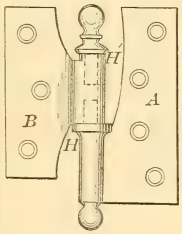

**85730**—F. Crocker—*Torpedo for Oil Wells.*



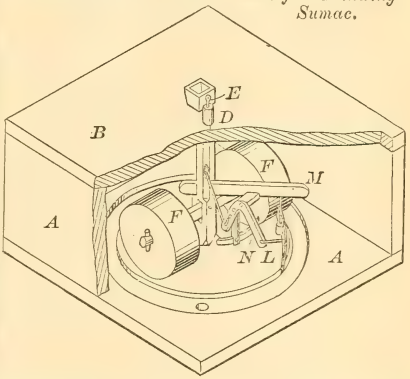

**85734**—W. E. Derrick—*Grapple for Suspending Horse Hay Forks.*



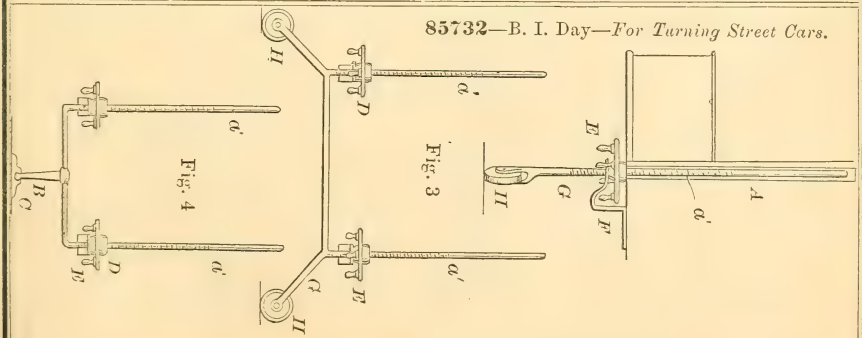

**85728**—C. Cole—*Hinge.*



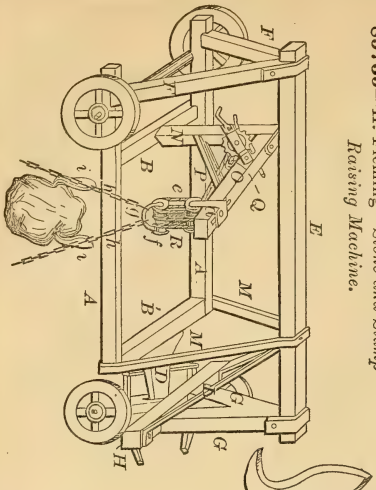

**85726**—R. G. Chase—*Mill for Grinding Sumac.*



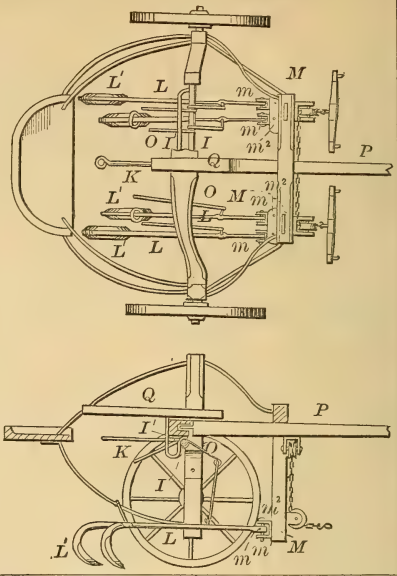

**85732**—B. I. Day—*For Turning Street Cars.*



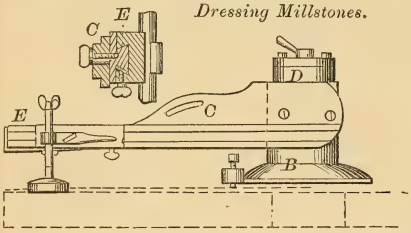
**85735**—H. Fleming—*Stone and Stump Raising Machine.*



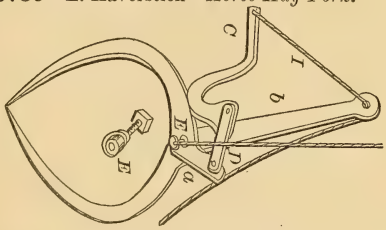
**85736**—I. B. Gilbert—*Cultivator.*



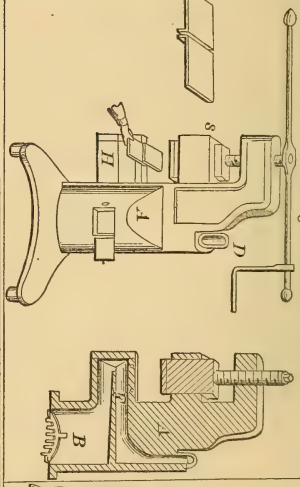
**85737**—J. T. Gilmore—*For Trimming and Dressing Millstones.*



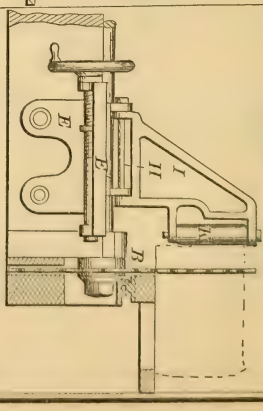
**85739**—L. Haverstick—*Horse Hay Fork.*



**85742**—J. Le Comte—*Uniting Sheet Metal Plates.*

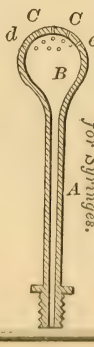


**85740**—O. A. & W. P. Horn—*Gauge for Circular Saws.*



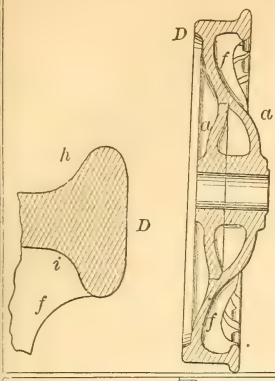
**85738**—W. D. Gridley—*Picture Hook.*

**85744**—T. Lewis—*Vaginal Injection Pipe for Syringes.*

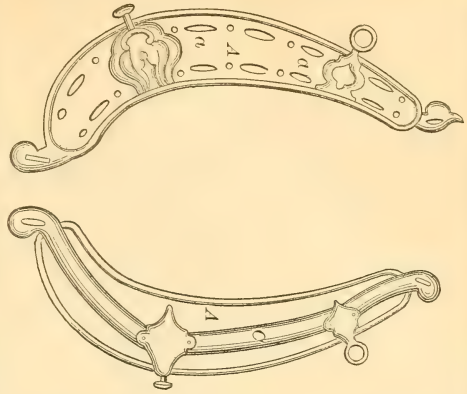


**85741**—W. T. Huntington—*Earth Boring Instrument.*

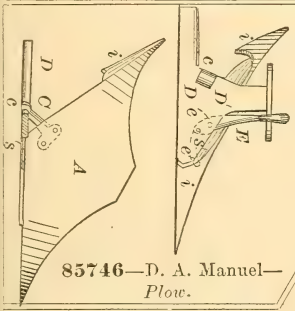
**85745**—G. G. Lobdell—*Car Wheel.*



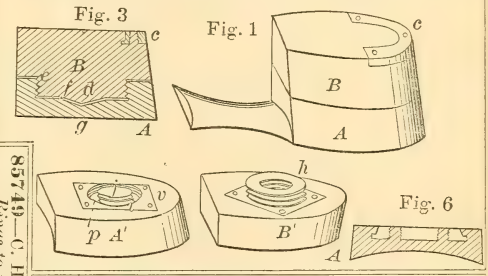

**85747**—C. K. Marshall—*Horse Collar.*



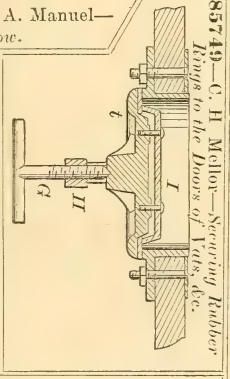

**85746**—D. A. Manuel—*Plow.*



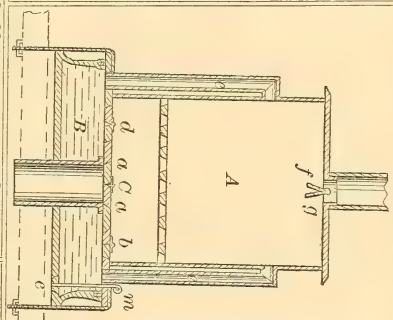

**85748**—G. W. Martin—*Boot and Shoe Heel.*




**85749**—C. H. Mellor—*Securing Rubber Rings to the Doors of Vats, &c.*



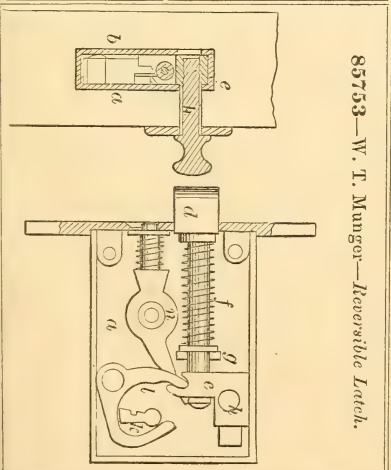

**85750**—J. Minor—*Railroad Car Stove.*



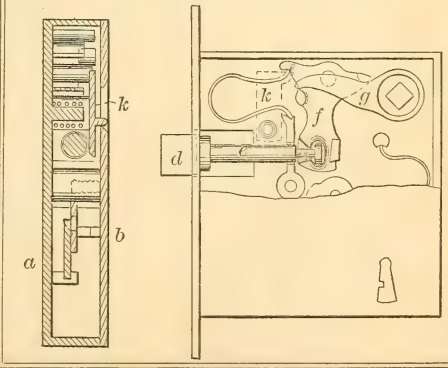

**85751**—J. A. Morrison—*Curtain Fixture.*



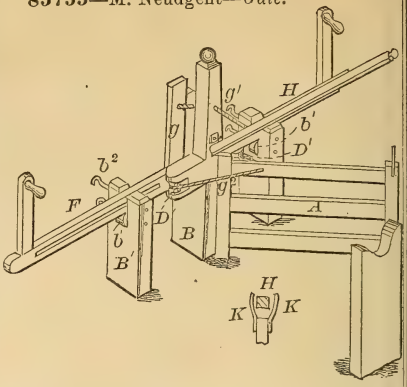

**85753**—W. T. Munger—*Reversible Latch.*



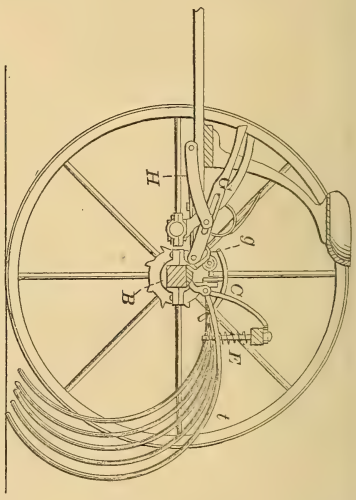

**85754**—W. T. Munger—*Reversible Latch.*



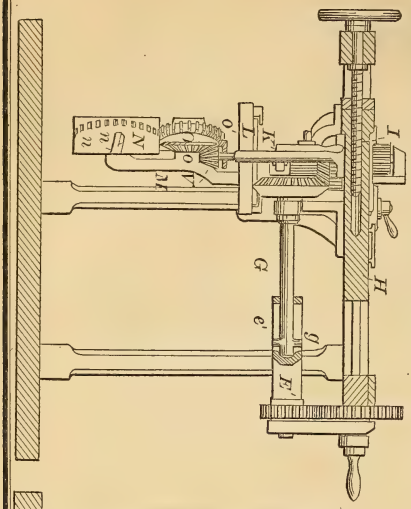
85755—M. Neudgent—*Gate.*

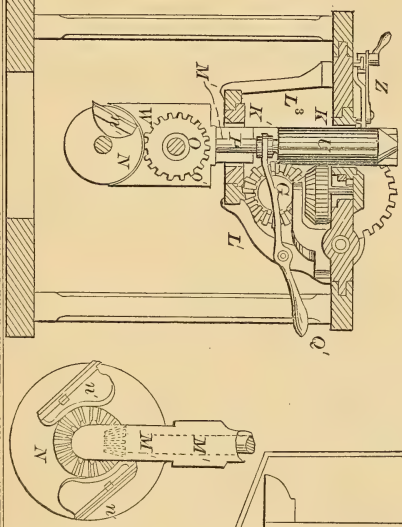


85757—S. R. Nye—*Horse Rake.*

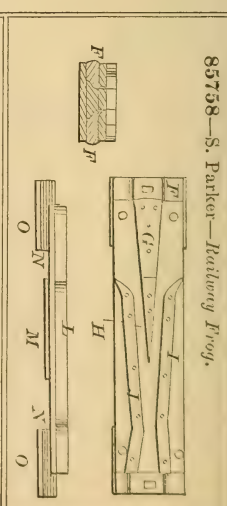


85752—P. A. Mowers—*Mortising Machine.*

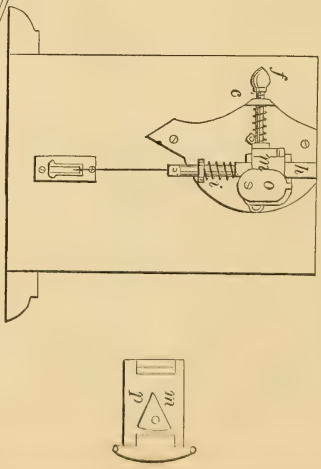




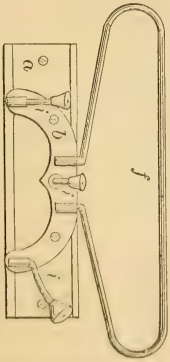
85758—S. Parker—*Railway Frog.*



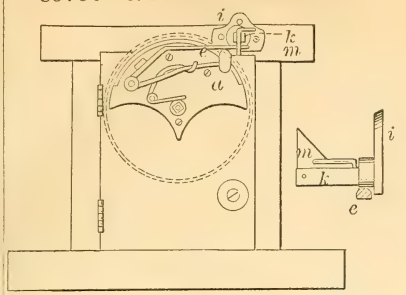
85759—C. Penfield—*Door Bell.*



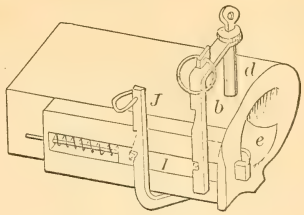
85756—O. A. North—*Clothes Hook.*



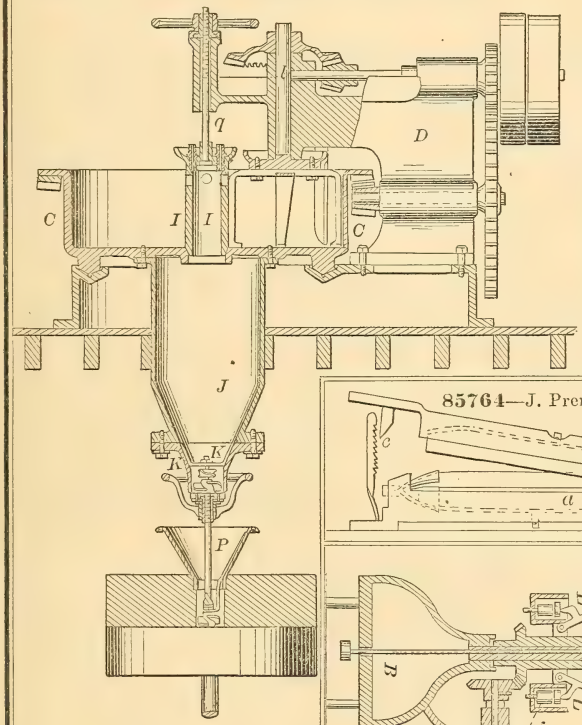
**85760**—C. Penfield—*Alarm Bell.*



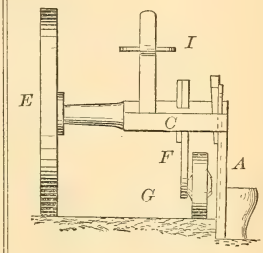

**85767**—A. G. Ritz—*Car Coupling.*



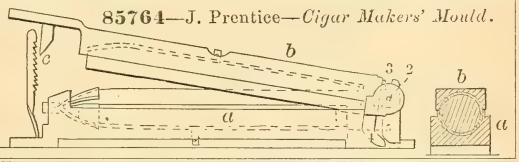

**85762**—R. Poole—*For Mixing Paints and Chemicals.*

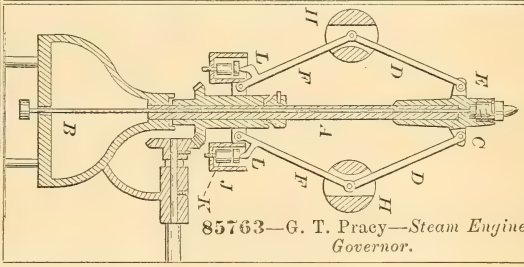



**85768**—J. Root—*Plow.*



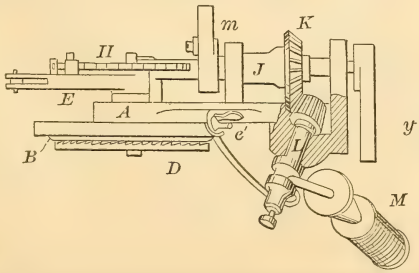

**85764**—J. Prentice—*Cigar Makers' Mould.*

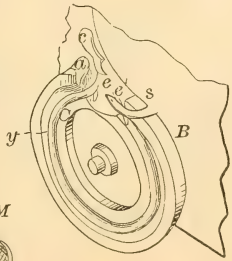


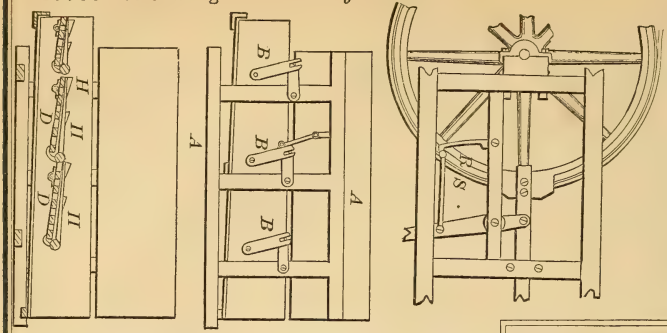

**85763**—G. T. Pracy—*Steam Engine Governor.*

**85765**—J. D. Reiff—*Knitting Machine.*

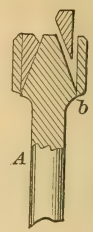


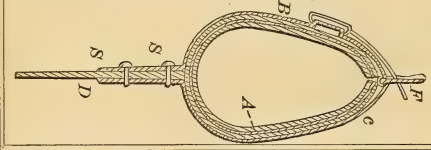
85769—J. U. Slingluff—*Threshing Machine.*



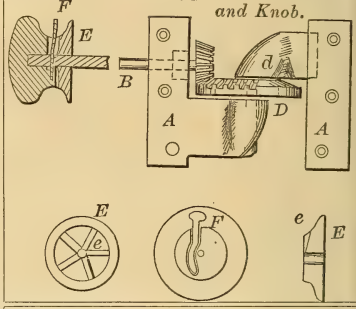

85770—J. Sperrey—*Swage for Saw Teeth.*



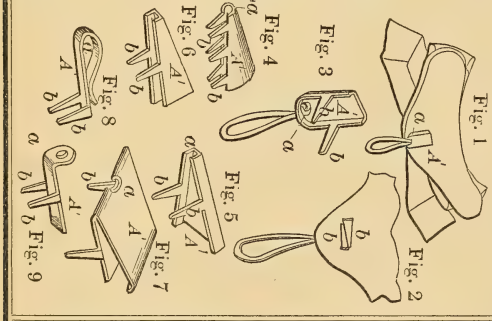

85771—J. E. Stuber—*Shaft Tug.*



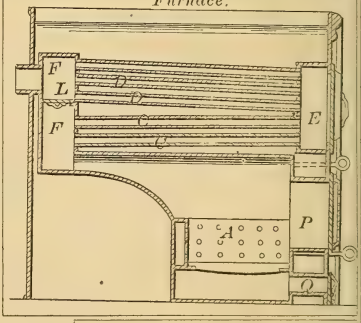

85772—J. W. Tripp—*Shutter Hinge and Knob.*



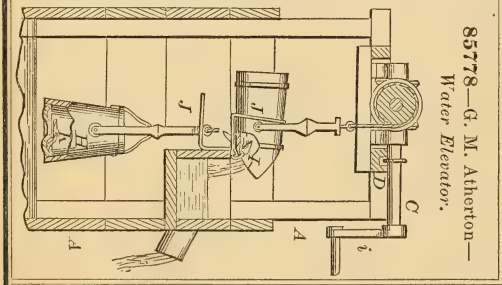

85773—B. F. Weishampel—*Neckties.*



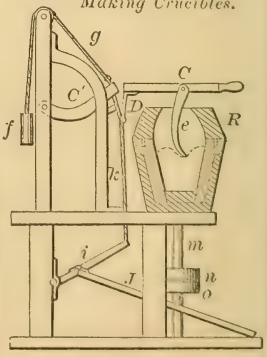

85774—J. W. Wentworth—*Hot Air Furnace.*



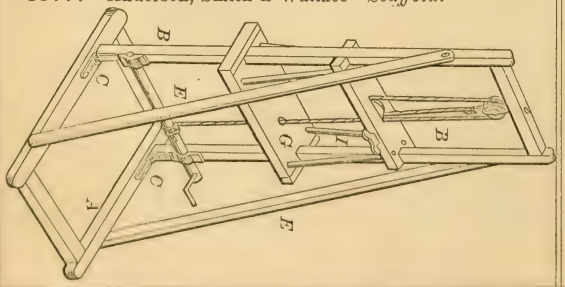

85778—G. M. Atherton—*Water Elevator.*



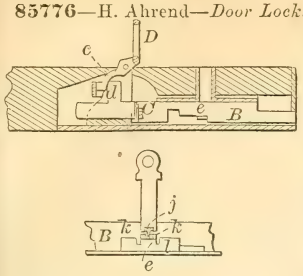

85775—J. Winkle—*For Making Crucibles.*



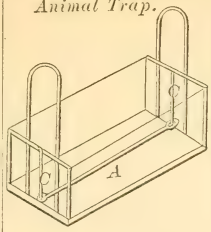

85777—Anderson, Smith & Wallace—*Scaffold.*



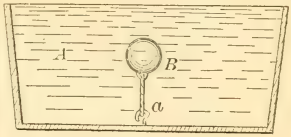
**85776**—H. Ahrend—*Door Lock.*



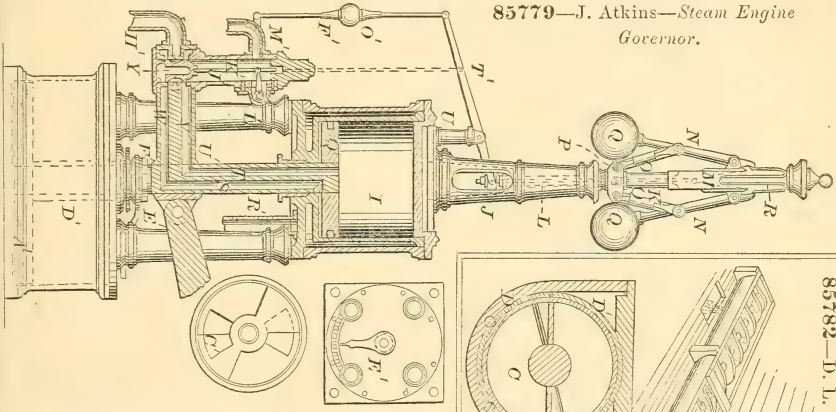

**85780**—S. Ayres—*Animal Trap.*



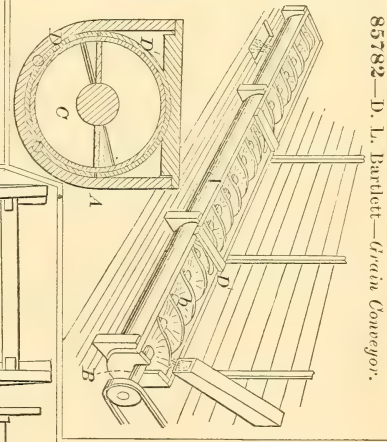

**85781**—B. T. Babbitt—*For the Formation of Ice.*



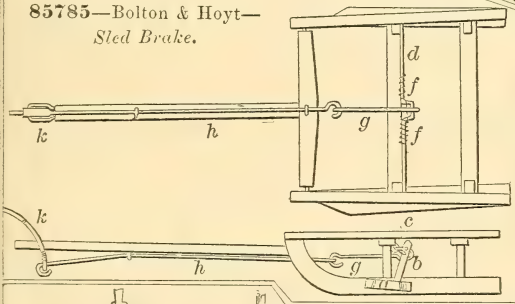

**85779**—J. Atkins—*Steam Engine Governor.*



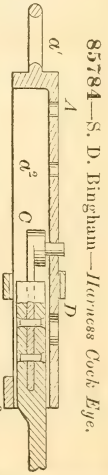

**85782**—D. L. Bartlett—*Grain Conveyor.*



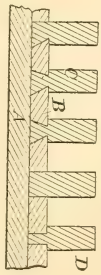

**85785**—Bolton & Hoyt—*Sled Brake.*



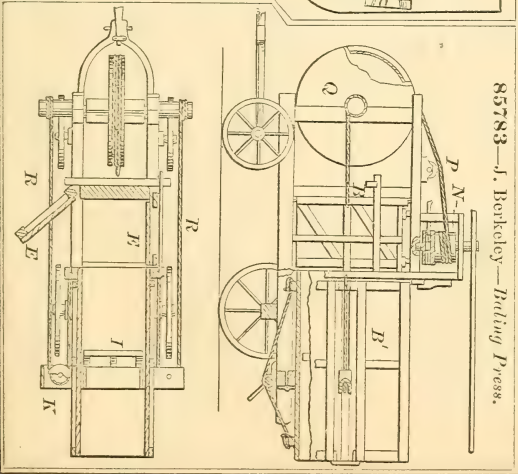

**85784**—S. D. Bingham—*Harness Cock Eye.*



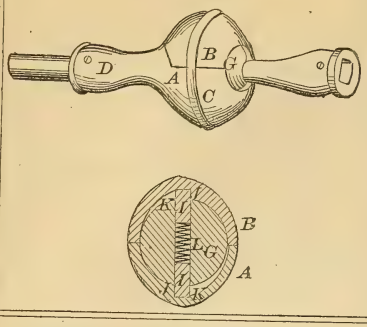

**85786**—Brocklebank & Trainer—*Wooden Pavement.*



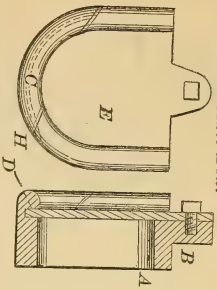

**85783**—J. Berkeley—*Baling Press.*



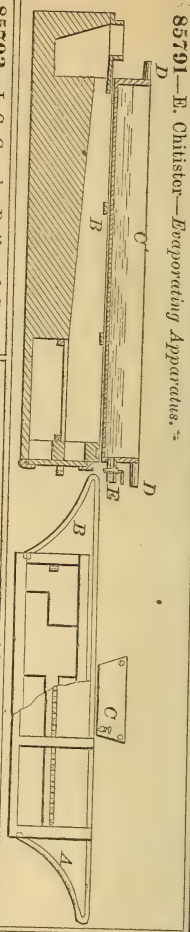
**85787**—J. Bruno, Jr.—*Universal Globe Joint.*



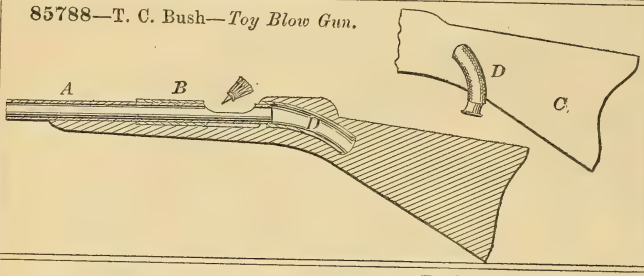

**85793**—J. C. Creed—*Railroad Car Axle Box.*



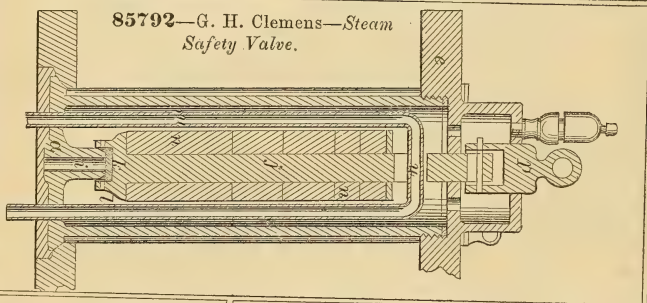

**85791**—E. Chitister—*Evaporating Apparatus.*



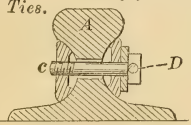

**85788**—T. C. Bush—*Toy Blow Gun.*



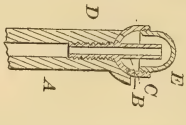

**85792**—G. H. Clemens—*Steam Safety Valve.*



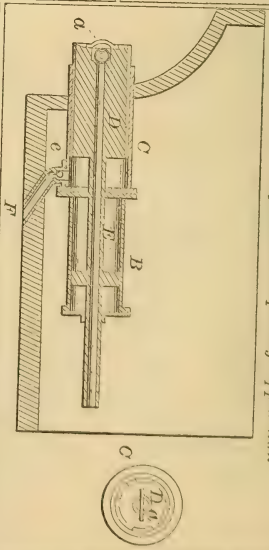
**85794**—C H. Crosby—*Bolt Fastening for Rail Ties.*



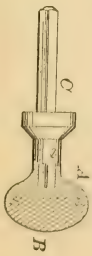

**85795**—Courtney & Kelagher—*Smoking Pipe.*



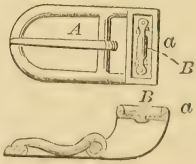

**85789**—S. D. Carpenter—*Propelling Apparatus.*



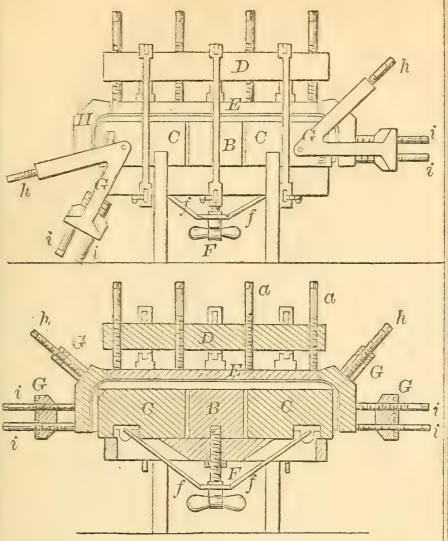

**85799**—E. Day—*Door Knob.*



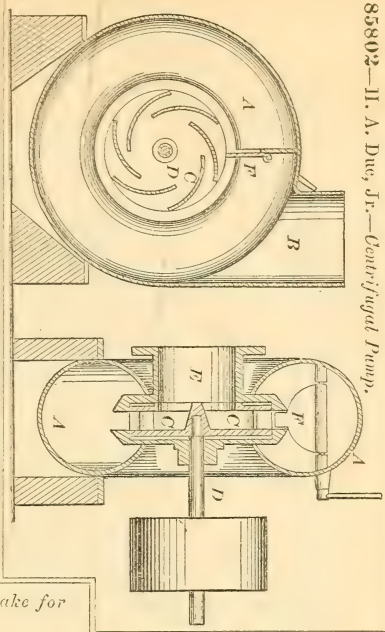

**85798**—E. S. Dawson—*Harness Buckle.*



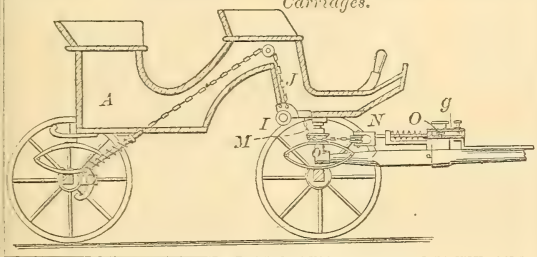
85800—D. Decker—*Veneer Press.*



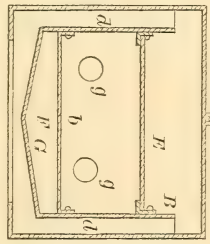
85802—H. A. Due, Jr.—*Centrifugal Pump.*



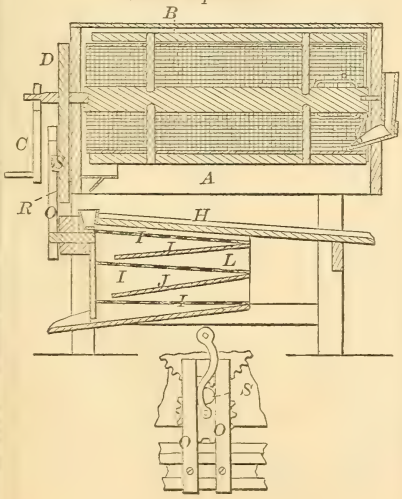
85803—C. Ducreux—*Safety Attachment and Brake for Carriages.*



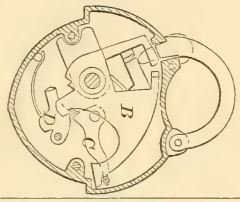
85804—L. A. & W. G. Duval—*Gas Heater.*



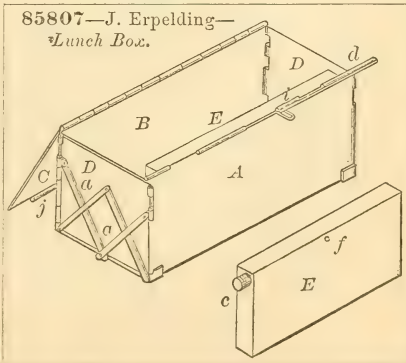
85801—Denton, Shannon & Lucas—*Grain Separator.*



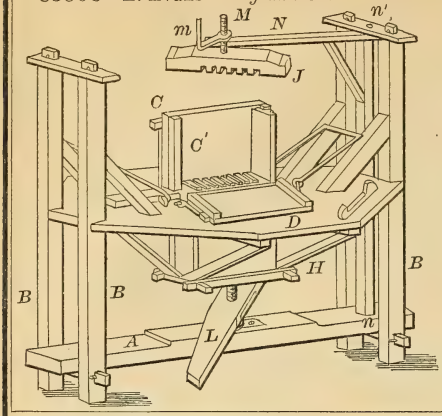
85805—L. Eiffler—*Padlock.*



85807—J. Erpelding—*Lunch Box.*

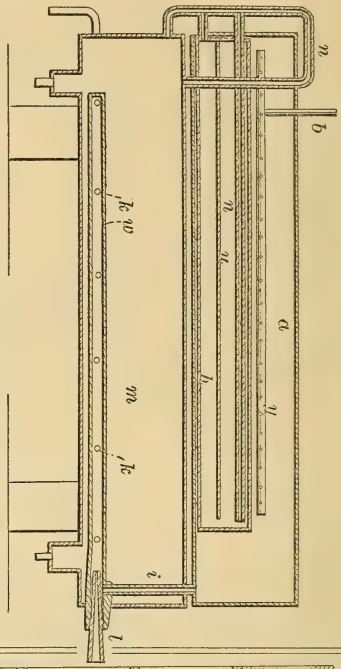


85808—E. Evans—*Hay and Cotton Press.*

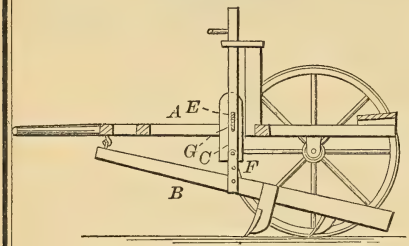


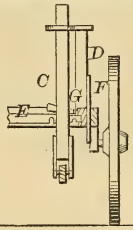

85809—C. H. Finn—*Oven Door.*

85810—S. Gibbons—*Still for Refining and Distilling Oils.*

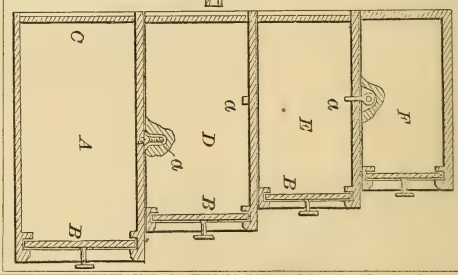



85812—J. G. B. Gill—*Cultivator.*

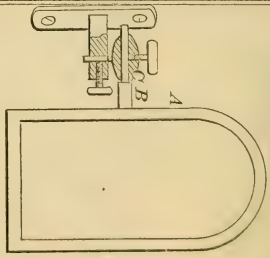


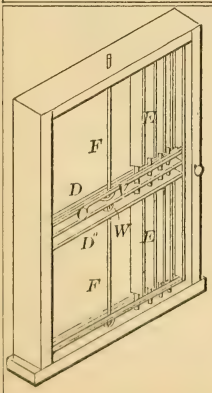

85811—E. Gill—*Bureau.*

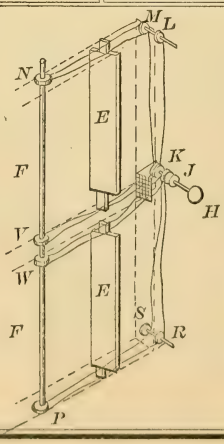



85815—C. W. Haffermalz—*Mirror Frame.*



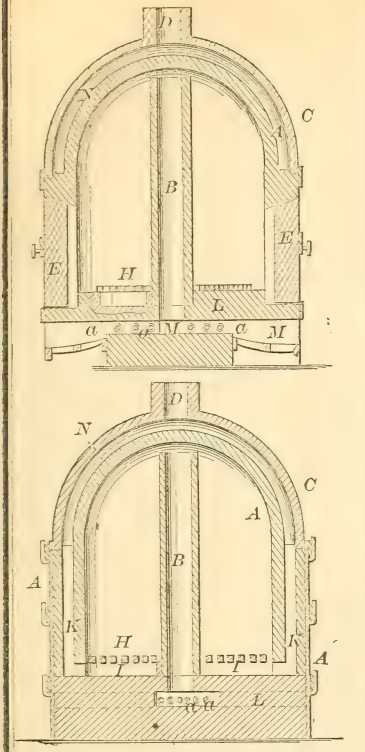

85818—J. Harding—*Window Blind.*

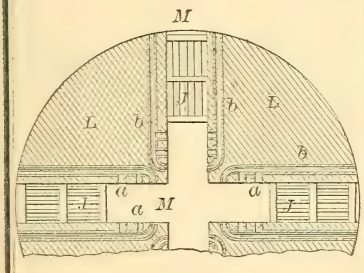


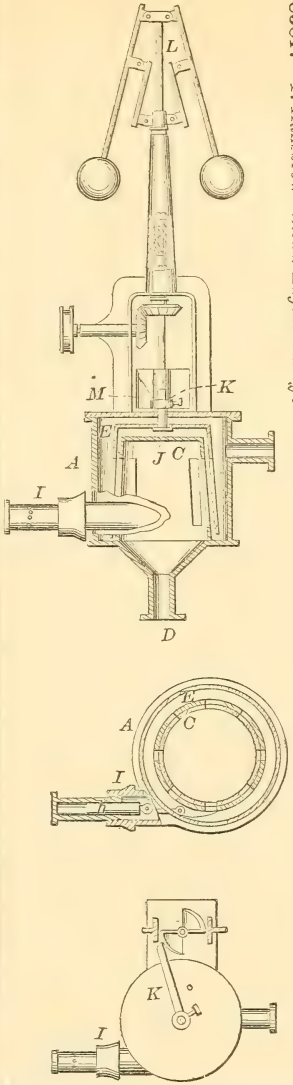

85814—C. Guidet—*Pavement.*

**85813**—J. Green—*Burning Kiln.*

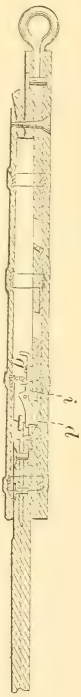


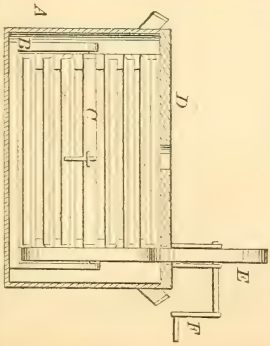

**85817**—T. Hansbrow—*Steam Engine Cut-off.*



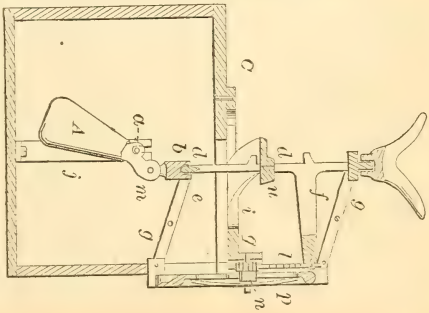

**85820**—S. C. Hawkins—*Trace Fastening.*



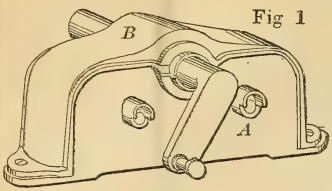

**85821**—L. Hermance—*Washing Machine.*

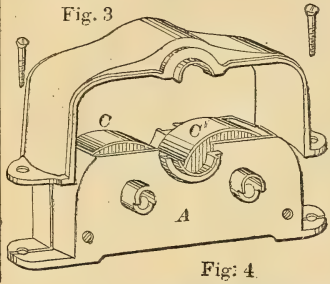


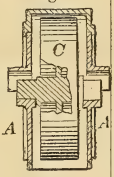

**85816**—S. S. Hamilton—*Weighing Scale.*

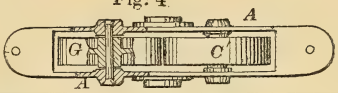


**85819**—J. L. Haven—*Grindstone Journal Box.*

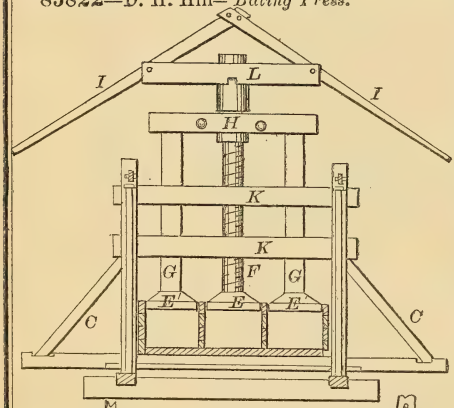


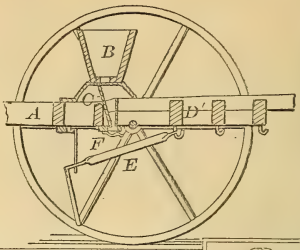



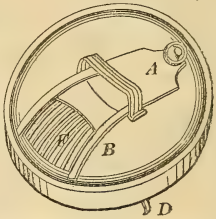

**85822**—D. H. Hill—*Baling Press.*



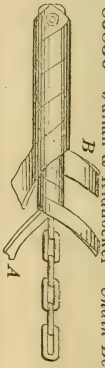

**85824**—P. F. Hodges—*Grain Drill.*



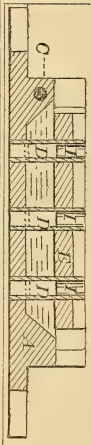

**85827**—V. R. Holmes—*Kettle Cover.*



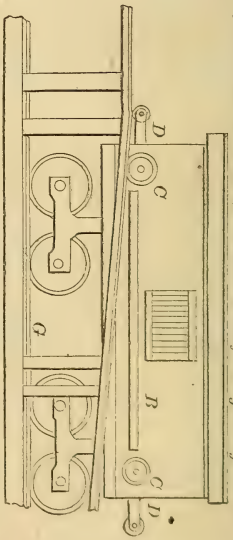

**85830**—Julian & Kidnocker—*Chain Belt.*

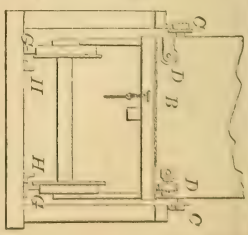



**85823**—A. C. Hobbs—*Wad Greasing Apparatus.*

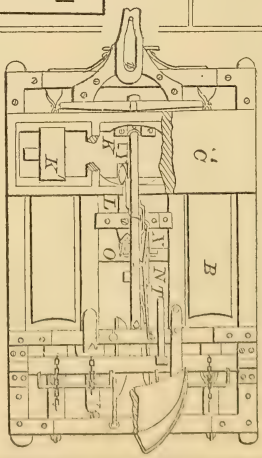


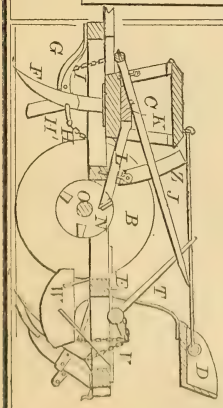

**85829**—J. H. James, Jr.—*For Transferring Freight.*



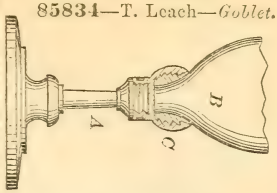




**85826**—J. W. Hollaman—*Corn Planter and Cultivator.*

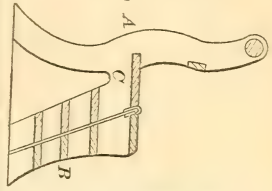


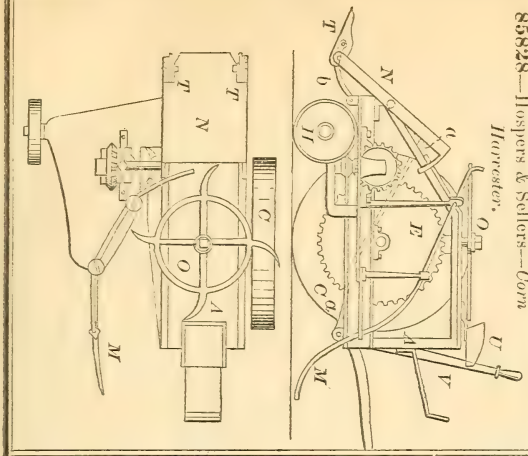
85834—T. Leach—*Goblet.*



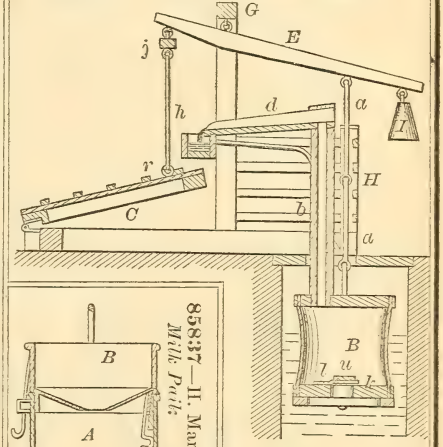
85835—A. Madson—*Chair and Step Ladder.*



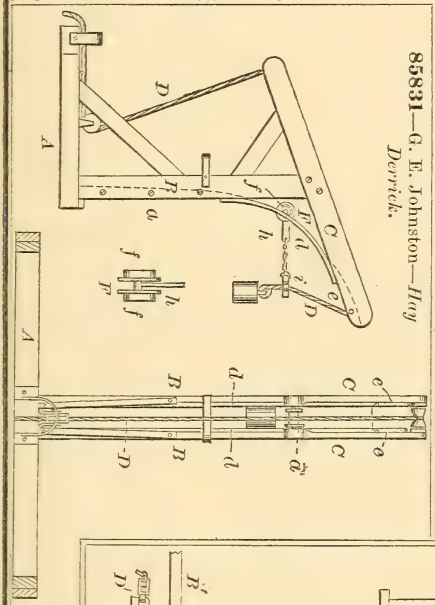
85828—Hospers & Sellers—*Corn Harvester.*



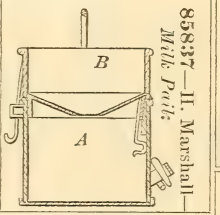
85832—D. J. Keller—*Cattle Pump.*



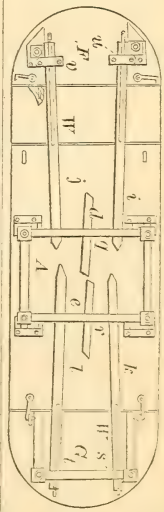
85831—G. E. Johnston—*Hay Derrick.*



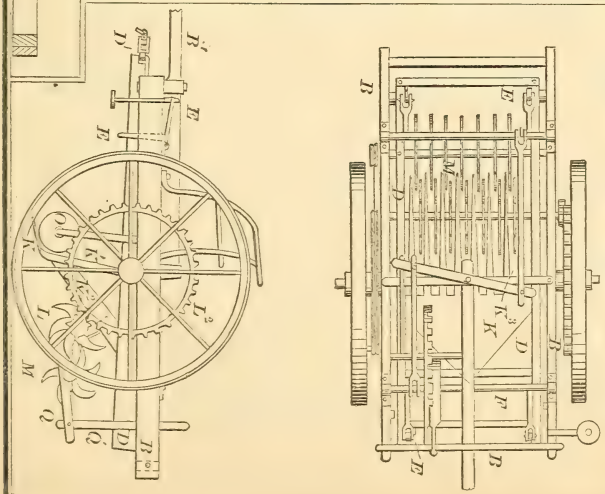
85837—H. Marshall—*Milk Pail.*



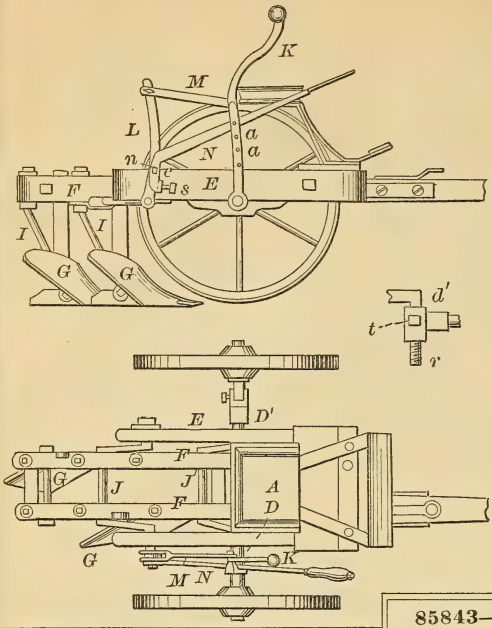
85836—G. S. Manning—*Extension Table.*



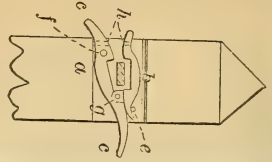
85833—S. Kinman—*Potato Digger.*



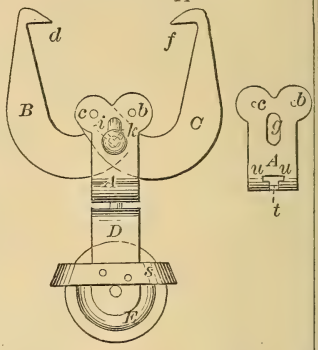
**85838**—W. Mason—*Gang Plow.*



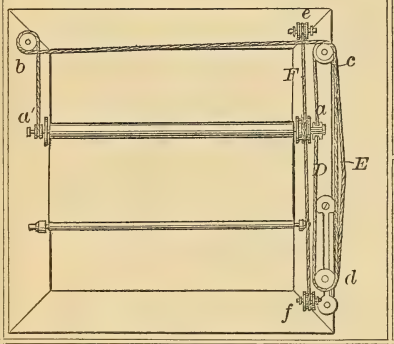

**85839**—J. A. Martin—*Gate Latch.*



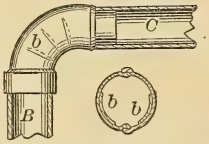

**85844**—O'Neil & Thomas—*Hay Fork Grapple.*



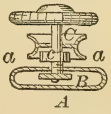

**85842**—B. Moser—*Curtain Fixture.*



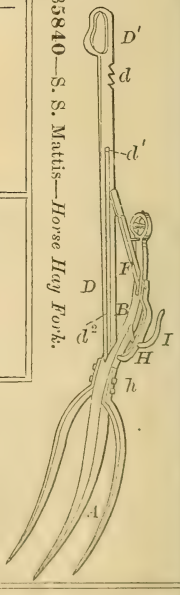

**85843**—F. G. & W. F. Niedringhaus—*Curved Elbow.*



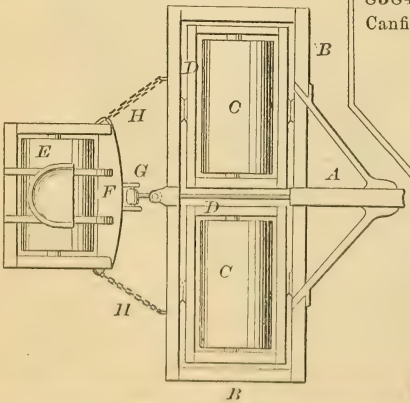

**85845**—P. O'Thayne—*Curtain Fixture.*



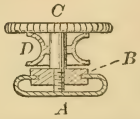

**85840**—S. S. Mattis—*Horse Hay Fork.*



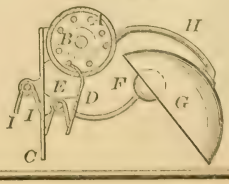

**85841**—N. S. McLay—*Land Roller.*



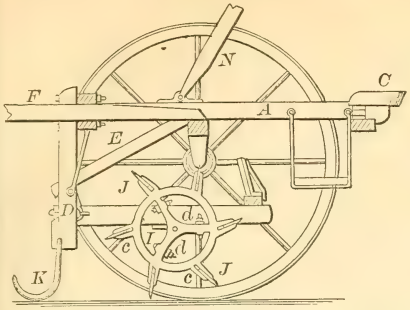

**85846**—O'Thayne & Canfield—*Curtain Fixture.*

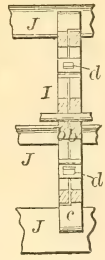



**85848**—Pierson & Manville—*Burglar Alarm.*

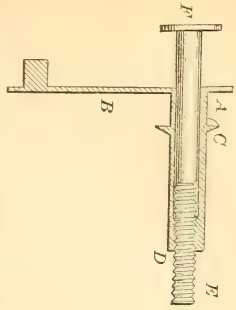


85847—R. B. & J. R. Parks—*Stalk Cutter.*

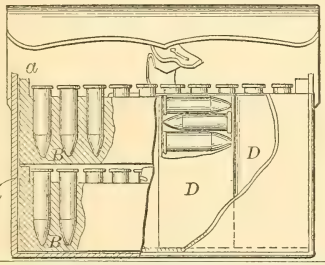


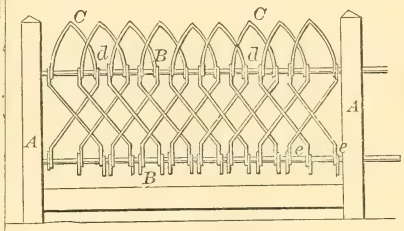

85850—T. J. W. Porter—*Bench Pin.*



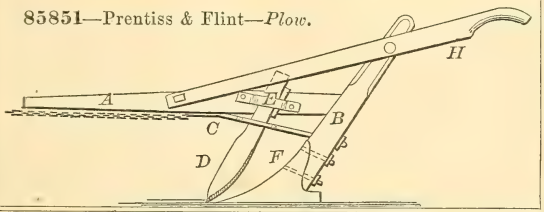

85849—J. I. Pittman—*Cartridge Box.*



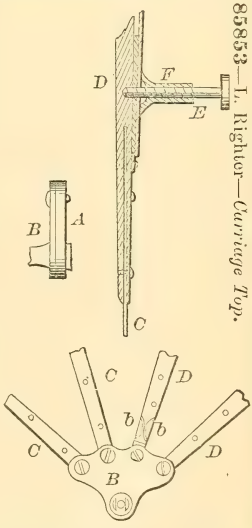

85852—J. J. Reicherts—*Fence.*



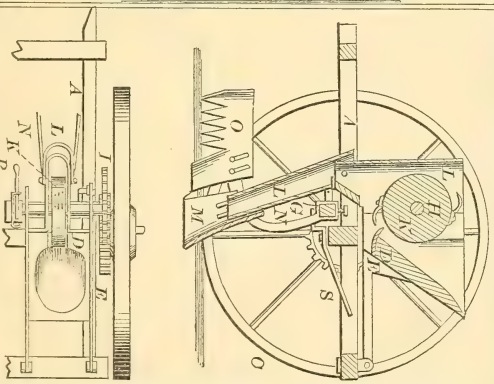

85851—Prentiss & Flint—*Plow.*



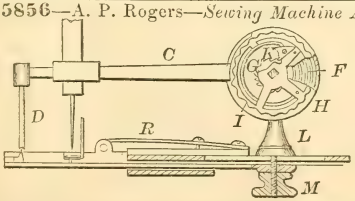

85853—L. Righter—*Carriage Top.*



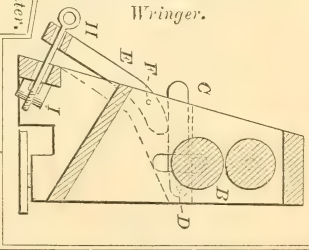

85854—Robb & Allison—*Seed Planter.*



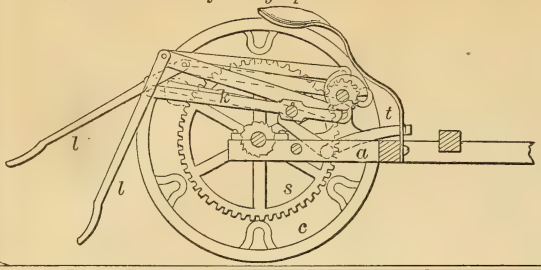

85856—A. P. Rogers—*Sewing Machine Attachment.*



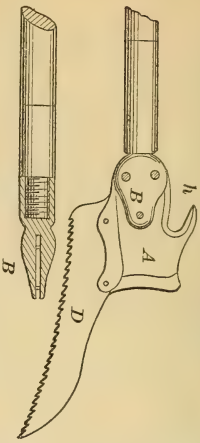

85857—M. Romans—*Wringer.*



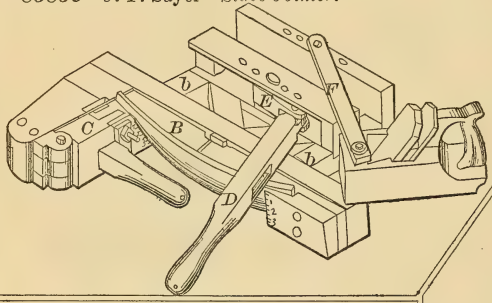
85858—G. T. Savary—*Hay Spreader.*



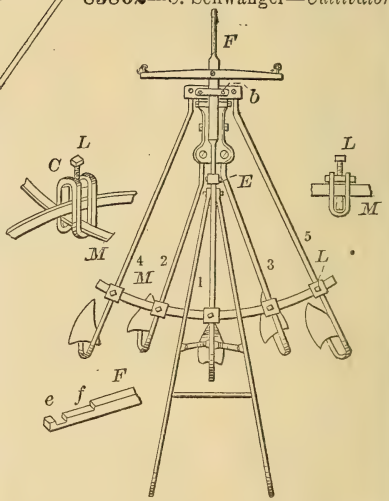

85861—J. Schroy—*Pruning Instrument.*



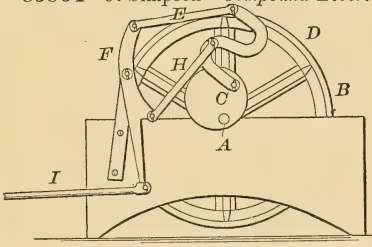

85859—J. F. Sayer—*Stave Jointer.*



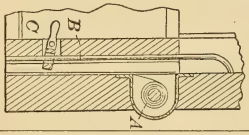

85862—C. Schwanger—*Cultivator.*




85864—J. Simpson—*Compound Lever.*



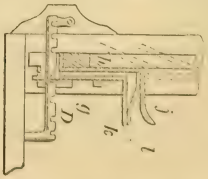

85863—W. H. Sible—*Sash Holder.*



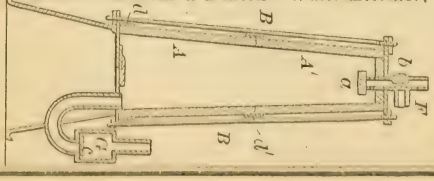

85866—O. W. Stanford—*Bed Bottom.*

85865—H. Spaulding—*Threshing Knife.*

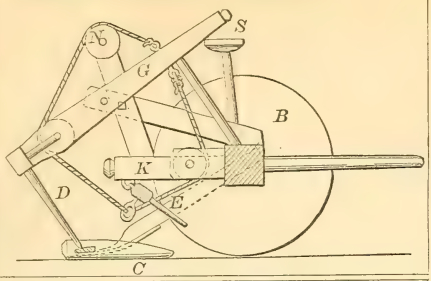
85867—S. F. Stanton—*Blind Fastener.*



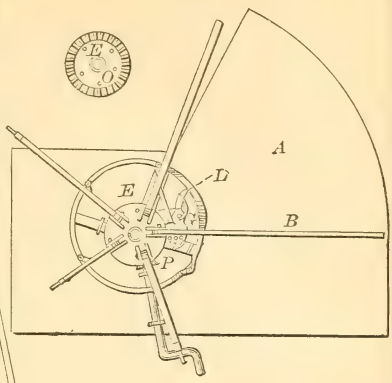

85868—Stevens & Denton—*Water Elevator.*



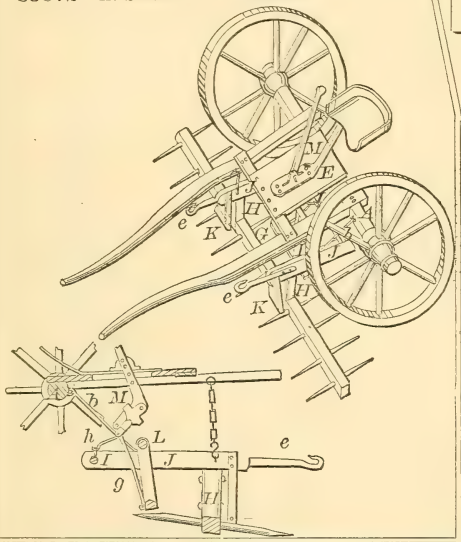
**85869**—W. Stinson—*Horse Rake.*



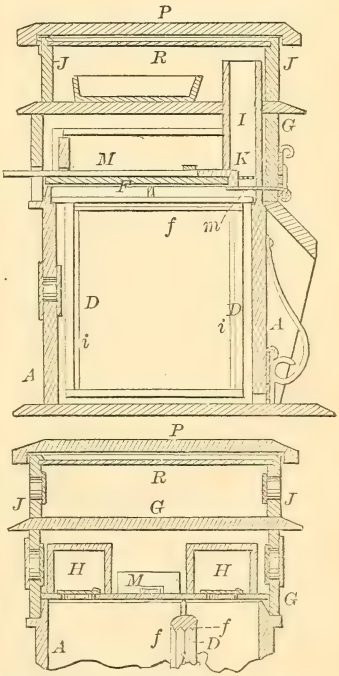

**85870**—O. O. Storle—*Harvester Rake.*



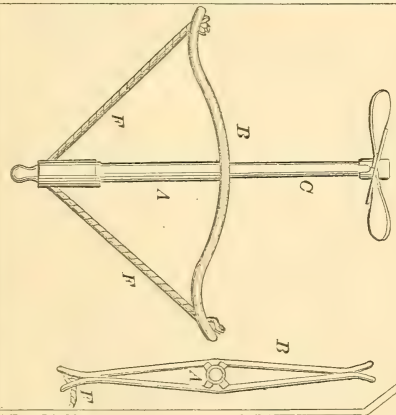

**85872**—E. Sweet—*Horse Rake.*



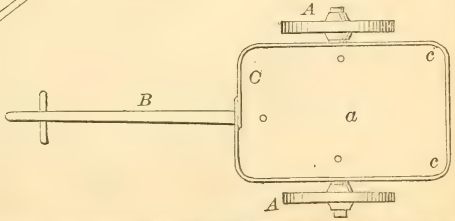

**85878**—T. Webb—*Beechive.*



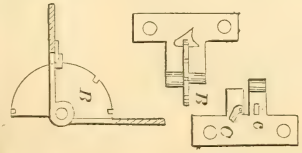

**85874**—H. Tilden—*Toy Bow Gun.*



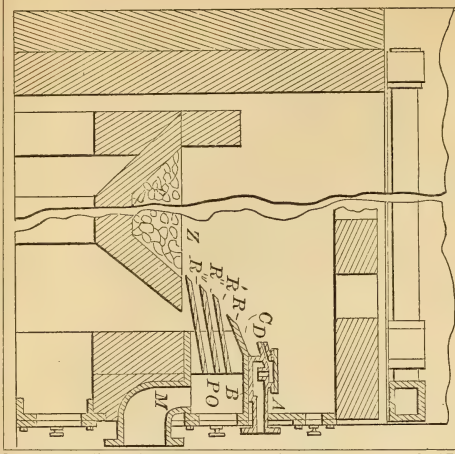

**85873**—A. L. Taylor—*Toy Cart.*



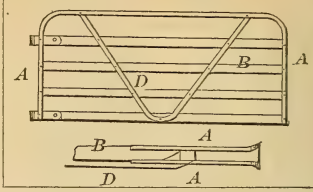

**85876**—M. Umstadler—*Hinge Stop*



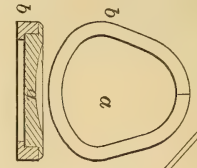
85877—L. Verstract—*Hydro-Carbon Burner.*



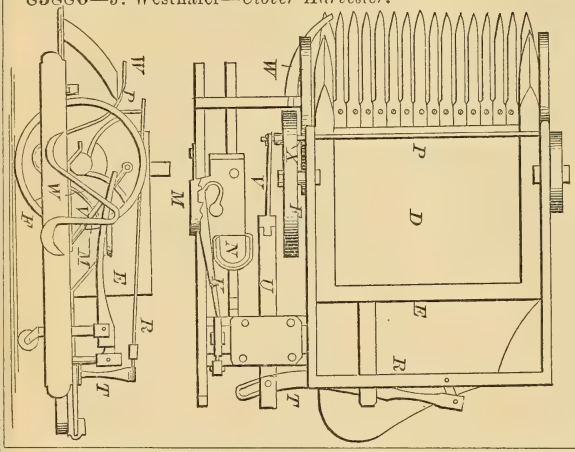
85882—W. F. Whitney—*Gate.*



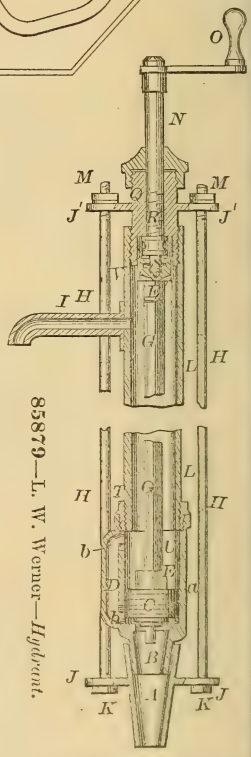
85883—G. C. Winchester—*Chair Seat.*



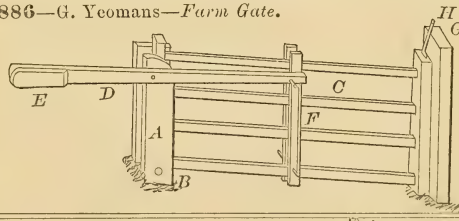
85880—J. Westhafer—*Clover Harvester.*



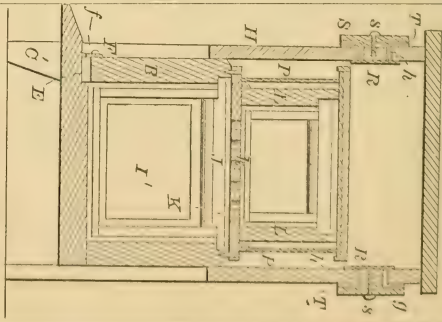
85879—L. W. Werner—*Hydrant.*

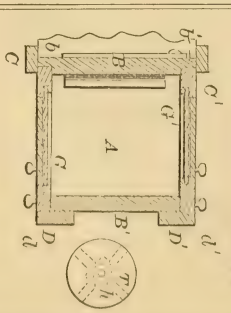


85886—G. Yeomans—*Farm Gate.*

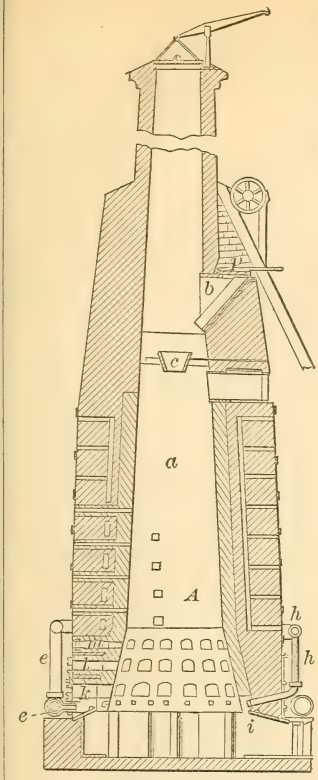


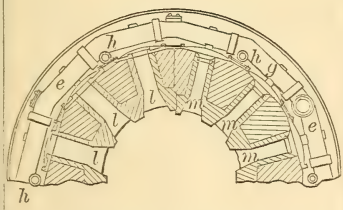
85884—J. Wood—*Beehive.*



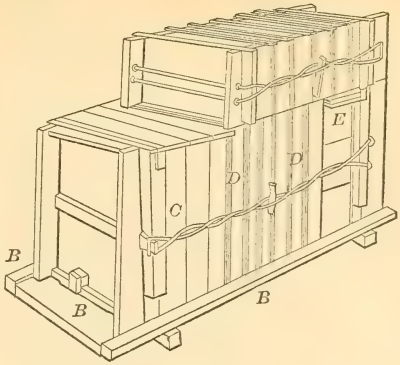


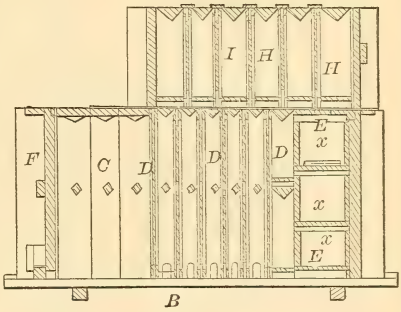
85881—E. Westman—*For Roasting and Calcining Ores.*



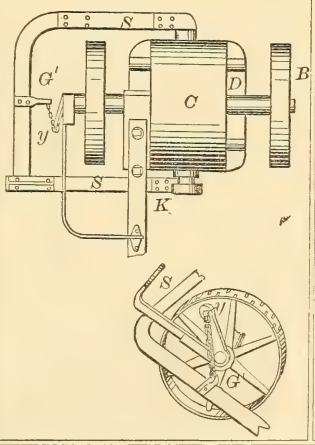




85885—A. T. Wright—*Beehive.*

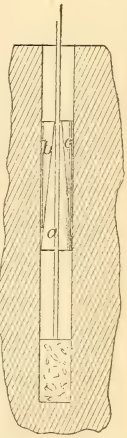


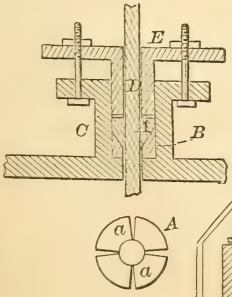

85887—G. W. N. Yost—*Harvester.*



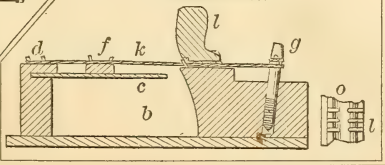

85888—H. Ball—*Tamping Plug.*



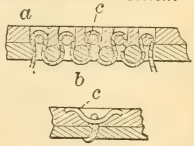

85890—O. H. Jewell—*Piston Rod Packing.*



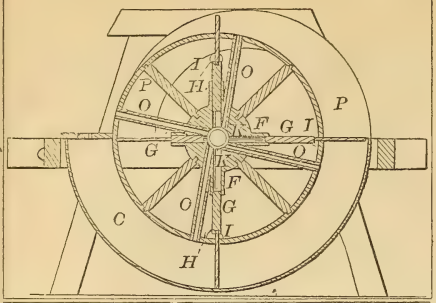

85889—A. V. T. Barberie—*Piano Forte.*



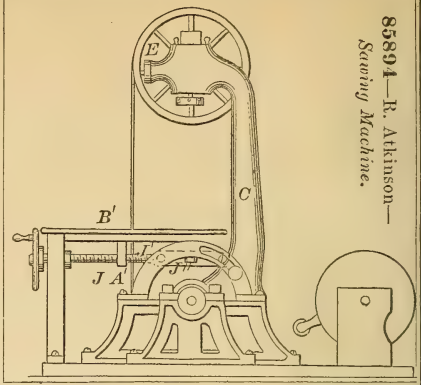

85891—T. K. Reed—*Machine Made Stitch.*



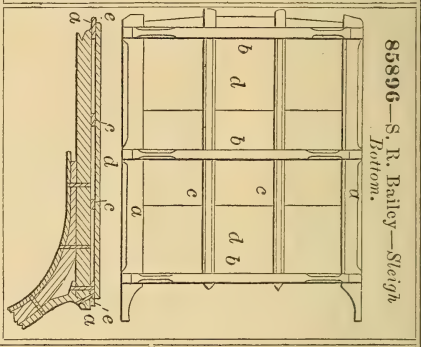
85892—E. Adams—*Water Wheel.*



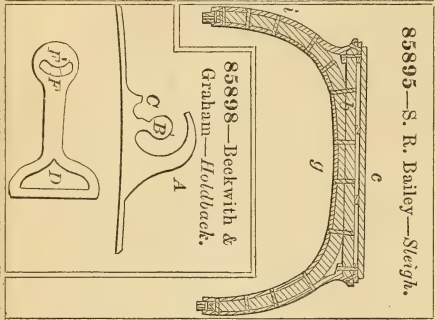
85894—R. Atkinson—*Sawing Machine.*



85896—S. R. Bailey—*Sleigh Bottom.*



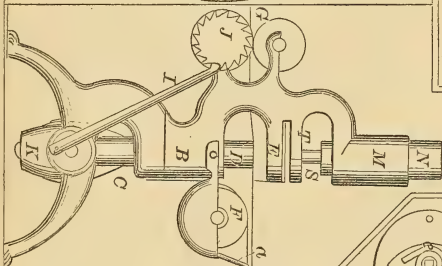
85895—S. R. Bailey—*Sleigh.*



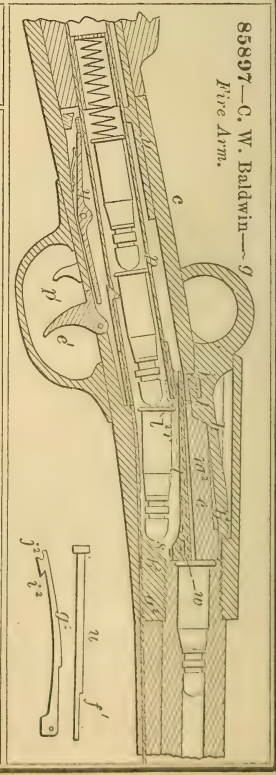
85898—Beckwith & Graham—*Holdback.*



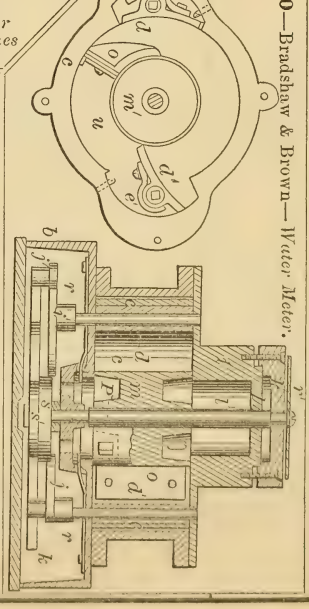
85899—F. F. Bradley—*For Applying Strengthening Patches to Button Holes of Collars.*



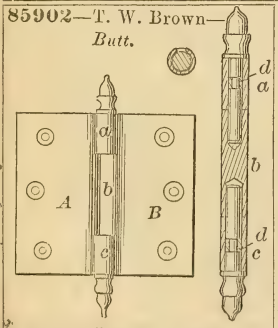
85897—C. W. Baldwin—*Fire Arm.*



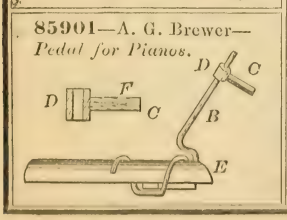
85900—Bradshaw & Brown—*Water Meter.*



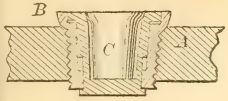
85902—T. W. Brown—*Butt.*



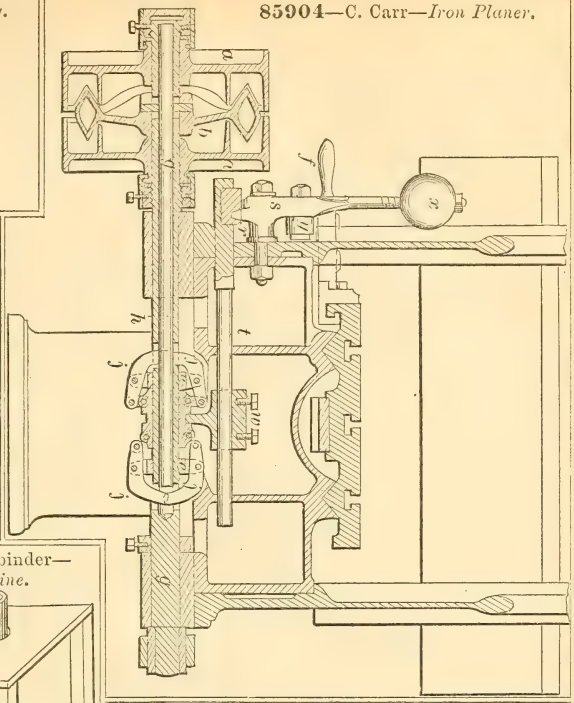
85901—A. G. Brewer—*Pedal for Pianos.*



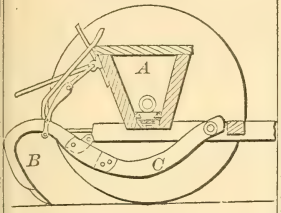
**85903**—W. Calhoun—*Bung.*



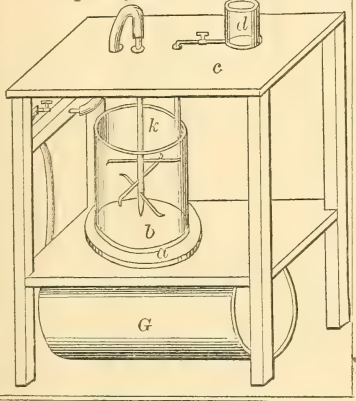

**85904**—C. Carr—*Iron Planer.*



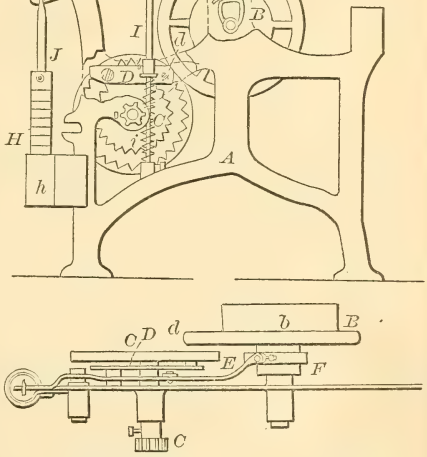
**85907**—Clark & Whitney—*Seed Sower.*



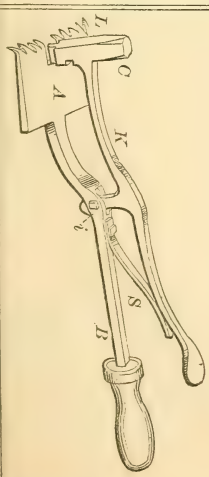

**85906**—Chester & Bürstenbinder—*Preparing Nitro-Glycerine.*



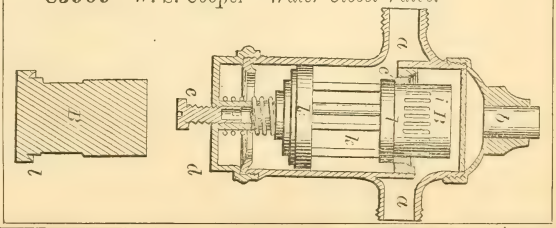

**85905**—B. F. Carter—*Loom.*



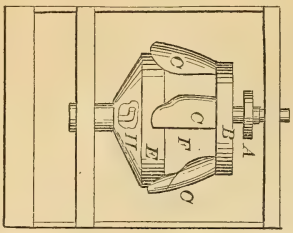

**85908**—Colby & Gilman—*Carpet Stretcher, Tack Driver and Puller.*



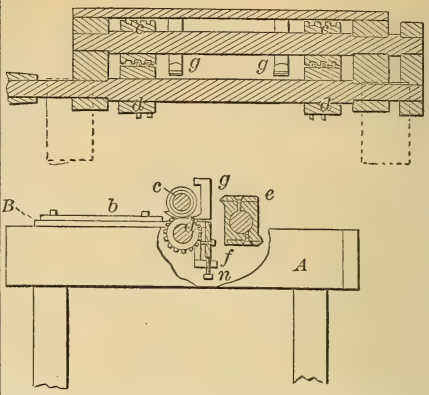

**85909**—W. S. Cooper—*Water Closet Valve.*



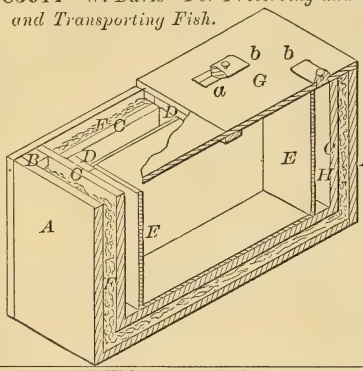
**85910**—A. W. Cram—*Condenser for Spirits, Steam and other Vapors.*



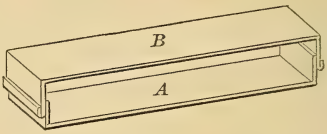

**85911**—J. H. & W. H. Crawford—*For Cutting Shingle Bands.*



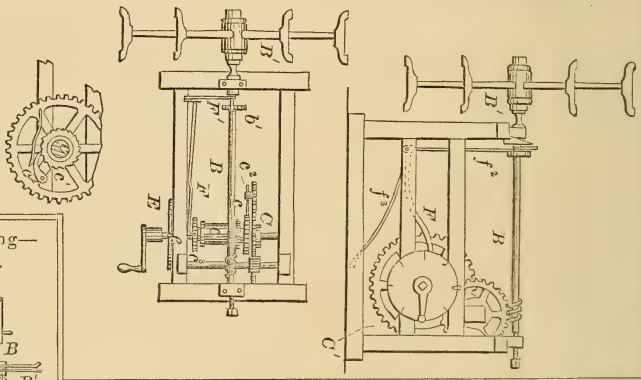

**85914**—W. Davis—*For Preserving and and Transporting Fish.*



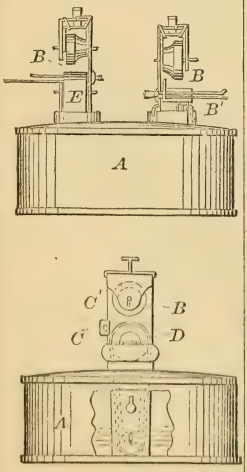

**85913**—W. Davis—*Freezing Box for Fish, &c.*



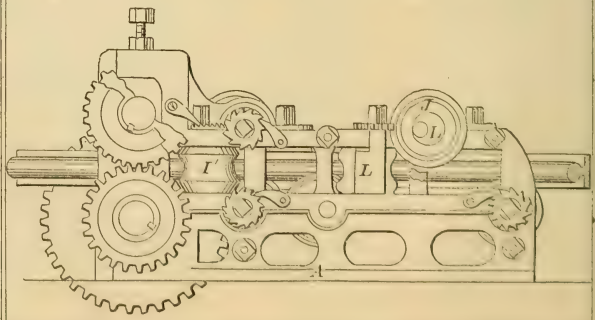

**85916**—W. A. Ditson—*Reeling and Measuring Yarn.*



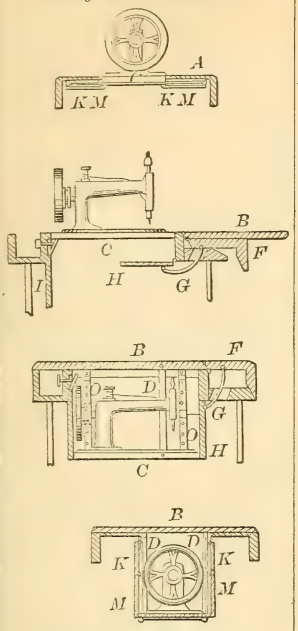

**85915**—B. De Long—*Mucilage Bottle.*



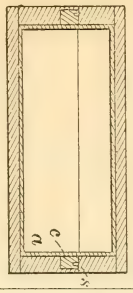

**85917**—S. Downing—*For Straightening Railroad Bars.*



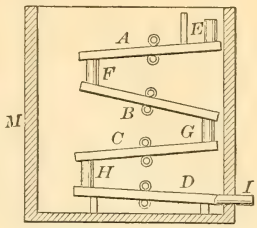
**85918**—J. F. Elliott—*Sewing Machine Table.*



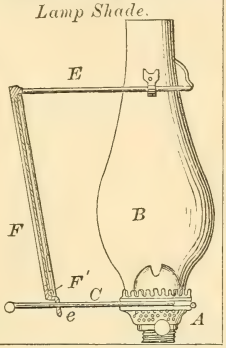

**85919**—M. Fitzgibbons—*Trunk.*



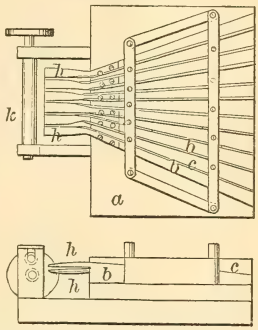

**85920**—A. Foot—*Milk Cooler.*



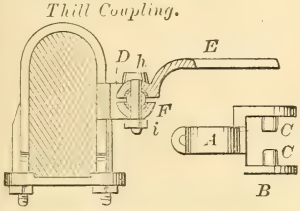

**85921**—F. E. Foster—*Lamp Shade.*



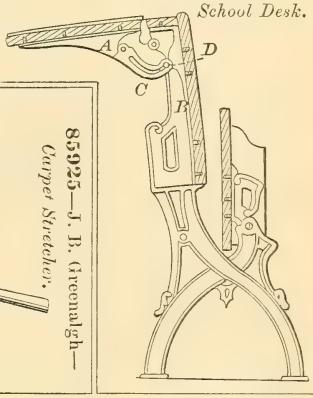

**85922**—W. Fuzzard—*Plaiting Fabric.*



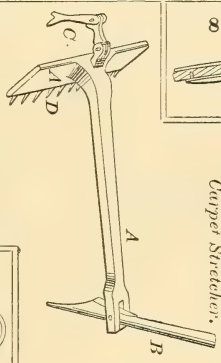

**85923**—R. M. Garrettson—*Thill Coupling.*



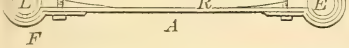

**85924**—Gilles & Wendell—*School Desk.*



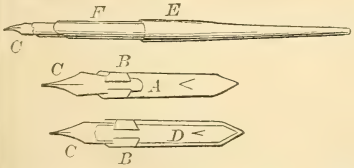

**85925**—J. B. Greenalgh—*Carpet Stretcher.*



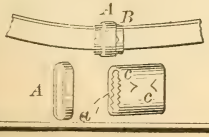

**85926**—M. Grover—*Pitman.*



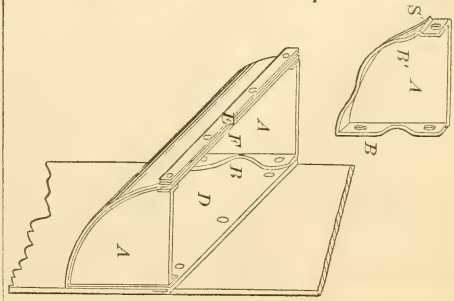

**85928**—D. E. Hall—*Pen Holder.*



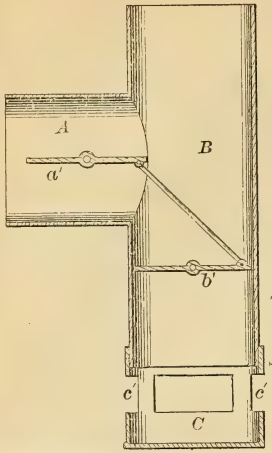

**85929**—D. E. Hall—*Band Fastening.*



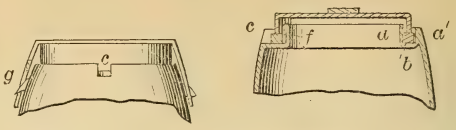

**85930**—N. Hawkins—*Elevator Bucket.*



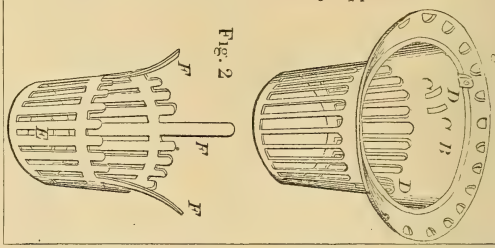
**85931**—T. Hessenbruch—*Stove Pipe Damper.*



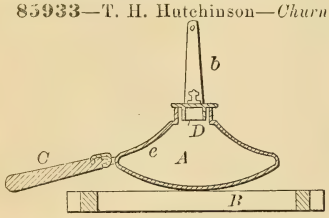

**85932**—P. M. Hinman—*Fruit Jar.*



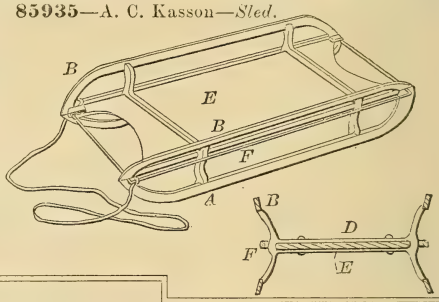

**85934**—G B. Isham—*Cooking Apparatus.*



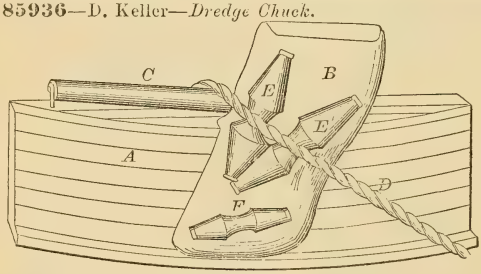

**85933**—T. H. Hutchinson—*Churn.*



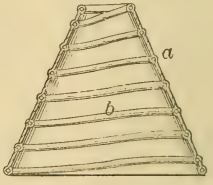

**85935**—A. C. Kasson—*Sled.*



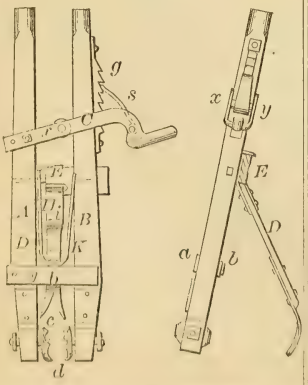

**85936**—D. Keller—*Dredge Chuck.*



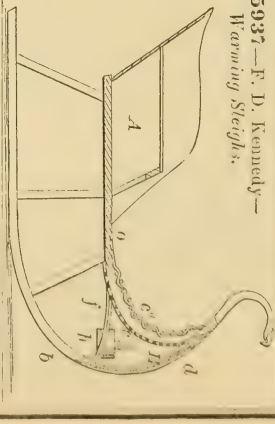

**85938**—J. M. Kirkpatrick—*Furniture Spring.*



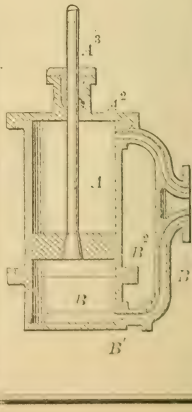

**85939**—F. G. Lafayette—*Flooring Clamp.*



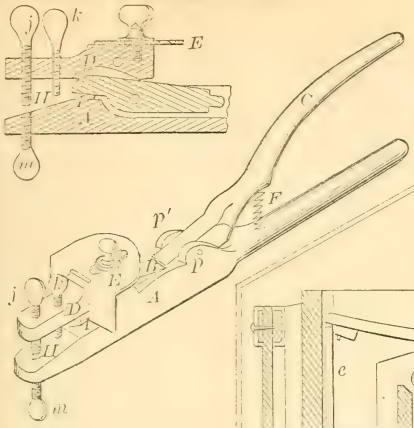

**85937**—F. D. Kennedy—*Warming Sleighs.*




**85940**—J. Lawson—*Steam Cylinder.*

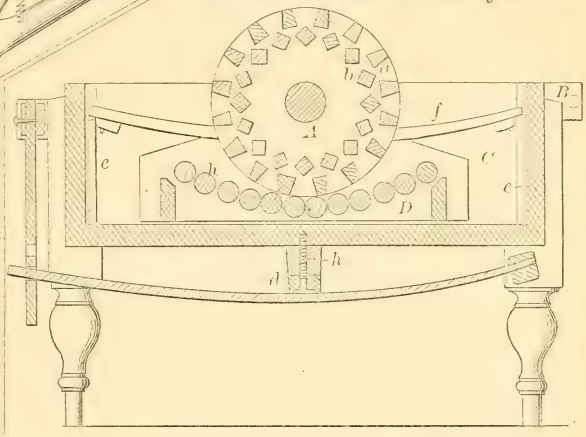


**85941**—S. F. Leach—*Saw Set.*



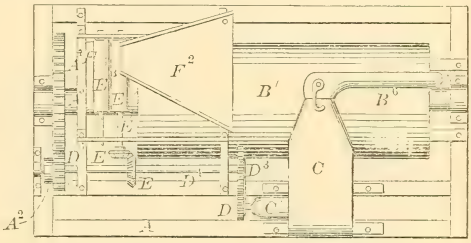
**85946**—N. F. Mathewson—*Carriage Curtain Button.*

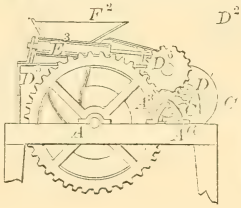
**85943**—P. H. Lewis—*Washing Machine.*

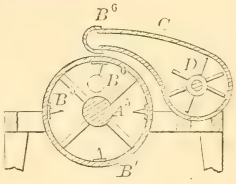


**85949**—J. A. McKenzie—*Shot Gun Muzzle.*

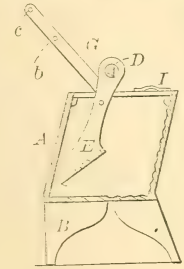
**85944**—T. Malley—*Dyeing Hair.*

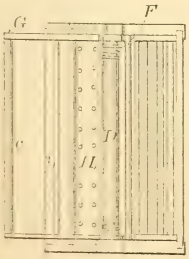


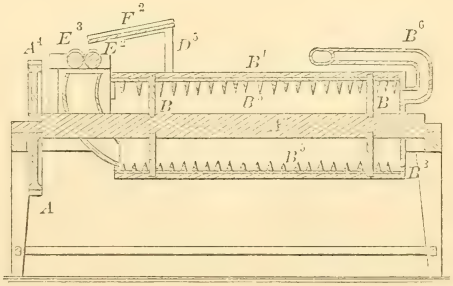




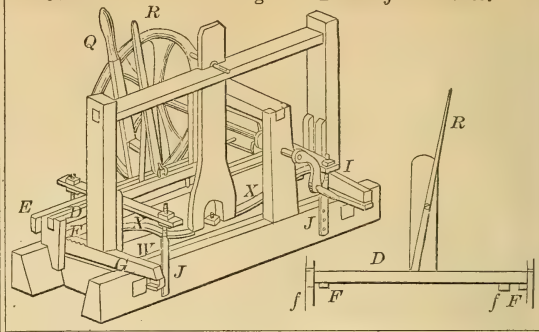
**85942**—W. Leighty—*Washing Machine.*



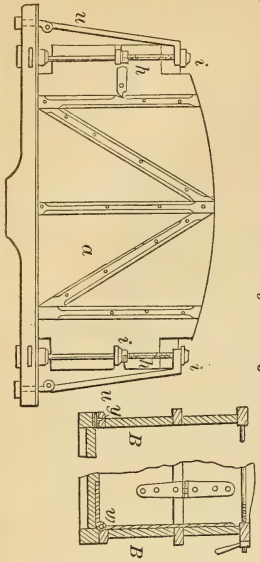




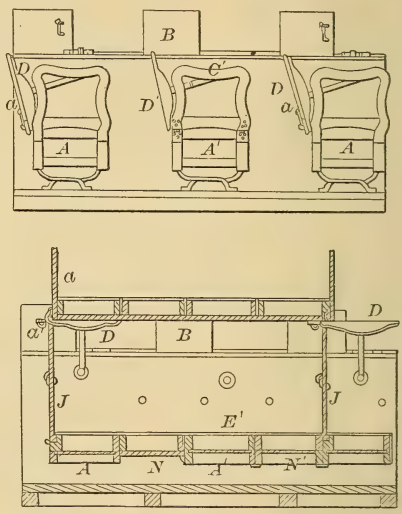
**85948**—W. A. McGlaughlin—*Dressing Millstones.*



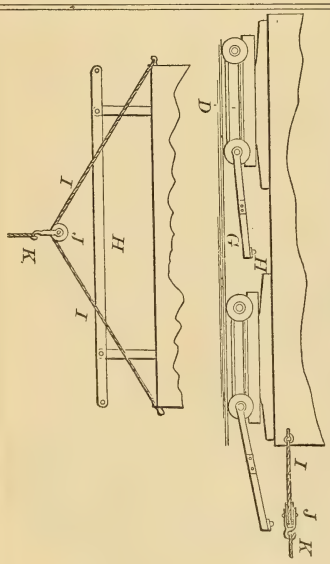

**85947**—McFerran & Blunt—*Wagon Body.*



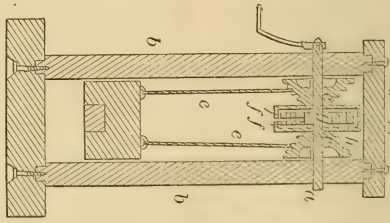

**85950**—C. C. Millar—*Sleeping Car.*



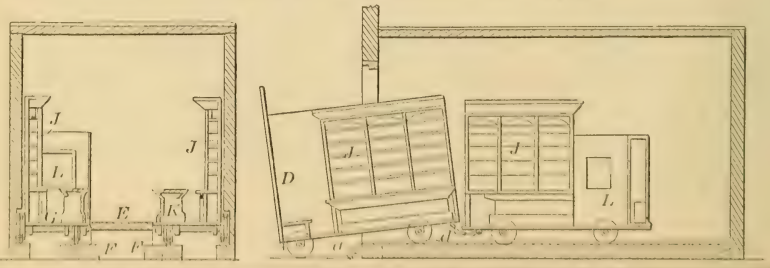

**85951**—W. Millikan—*House Moving Truck.*




**85952**—J. H. Mills—*Hoisting Apparatus.*

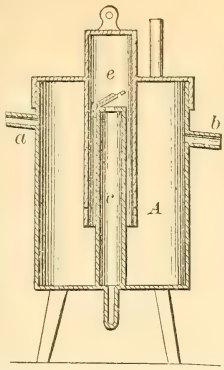



**85954**—J. H. Page—*Removing and Protecting Stores in Case of Fire.*

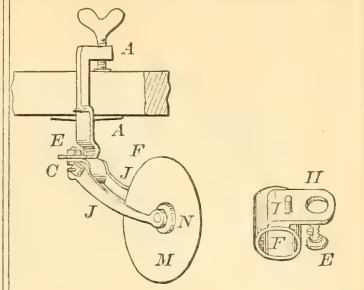


**85953**—F. Müller—*Window Shade Tassel Clip.*

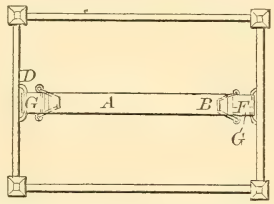
**85955**—P. Paille—*Defecating and Bleaching Cane Juice.*



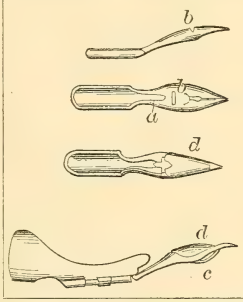

**85957**—Pitcher & Ellwood—*Coulter.*




**85960**—A. M. Pugh—*Bed Bottom.*

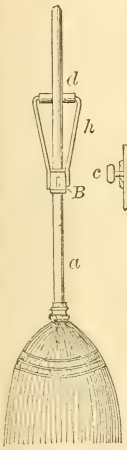



**85959**—J. T. Price—*Pen.*

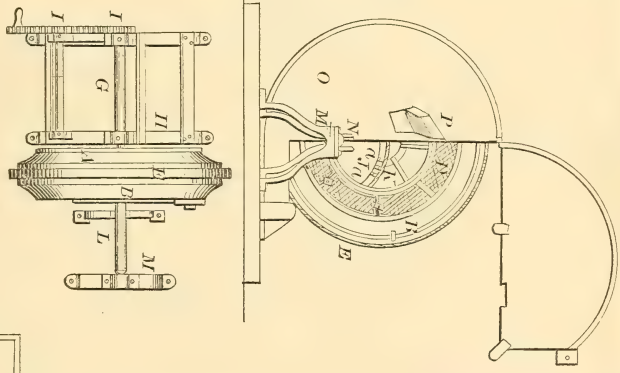



**85961**—J. Reckendorfer—*Attaching Rubber to Pencils.*

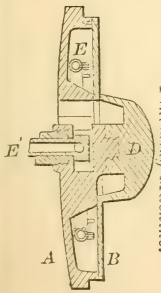
**85956**—F. S. Pinkham—*Holder for Broom and Brush Handles.*



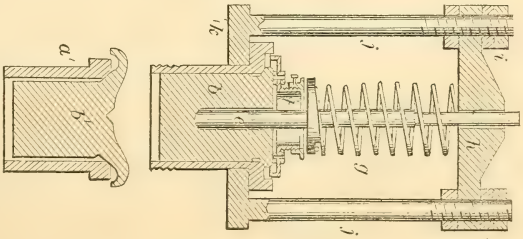

**85962**—G. C. Reeves—*Quartz Crusher.*



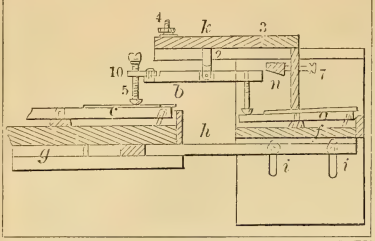

**85964**—J. C. Richardson—*Hat Finishing Machine.*



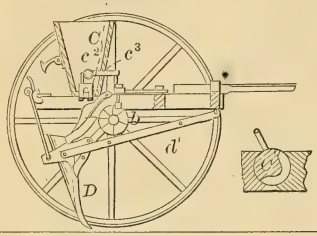

**85963**—G. W. Richardson—*Steam Safety Valve.*



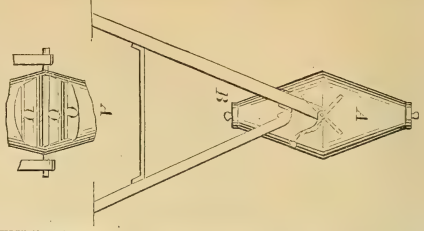
**85965**—T. J V. Roz—*Piano.*



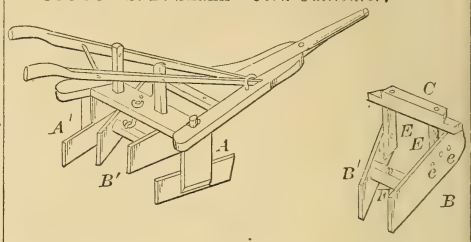
**85966**—A. Rutenfranz—*Seed Drill.*



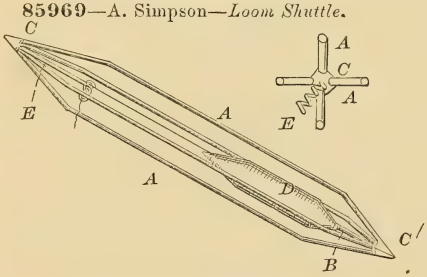
**85967**—C W. Saladee—*Churn.*



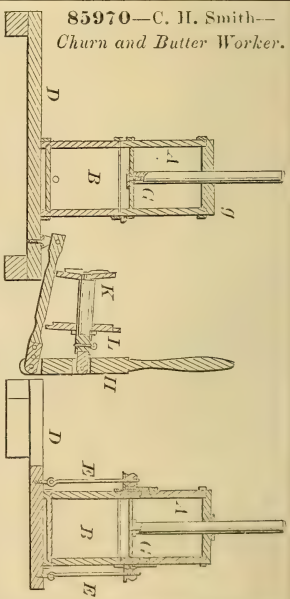
**85968**—S. B. Shank—*Corn Cultivator.*



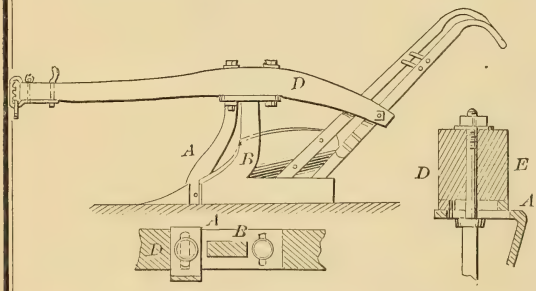
**85969**—A. Simpson—*Loom Shuttle.*



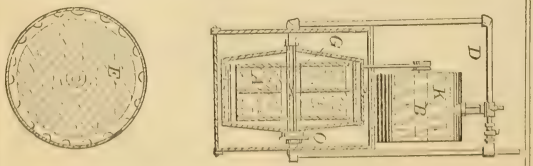
**85970**—C. H. Smith—*Churn and Butter Worker.*



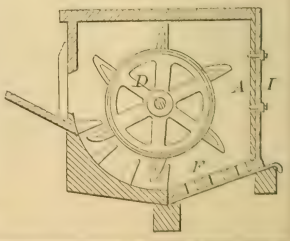
**85971**—F. F. Smith—*Plow Coulter.*



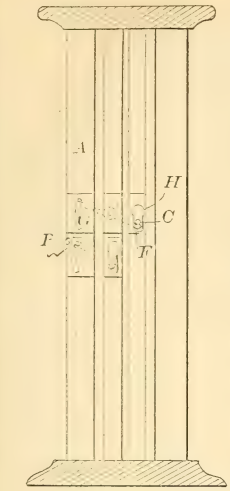
**85972**—J. H. Steiner—*Gas Generator.*

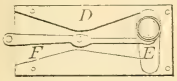


**85974**—J. T. Thornton—*Threshing Machine.*

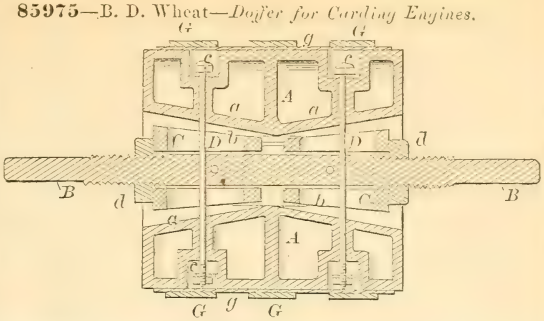


**85973**—W. A. Sublett—*Sash Lock.*

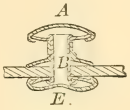


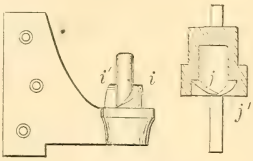

**85975**—B. D. Wheat—*Doffer for Carding Engines.*



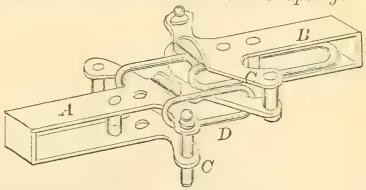

**85976**—E. S. Wheeler—*Carriage Knob.*



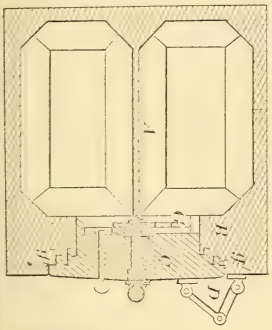

**85977**—A. Whelan—*Hinge.*

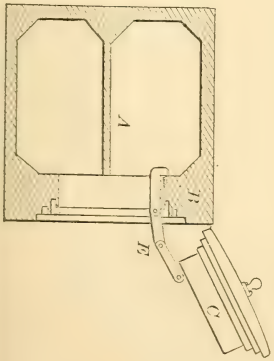



**85979**—J. T. Wilson—*Car Coupling.*

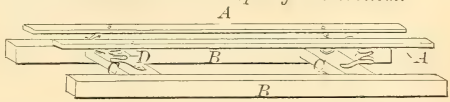


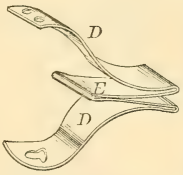

**85978**—F. H. Williams—*Safe.*



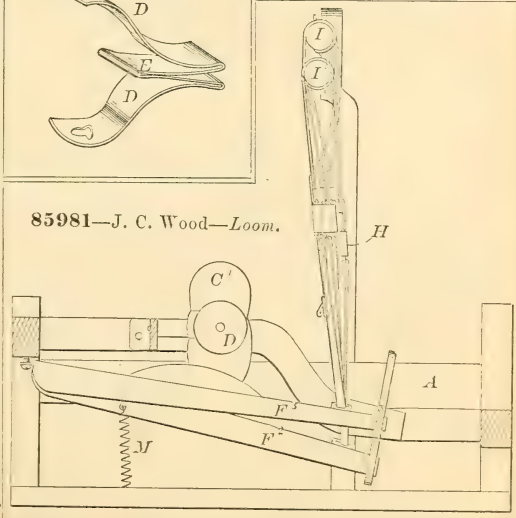




**85980**—S. Winslow—*Spring Bed Bottom.*

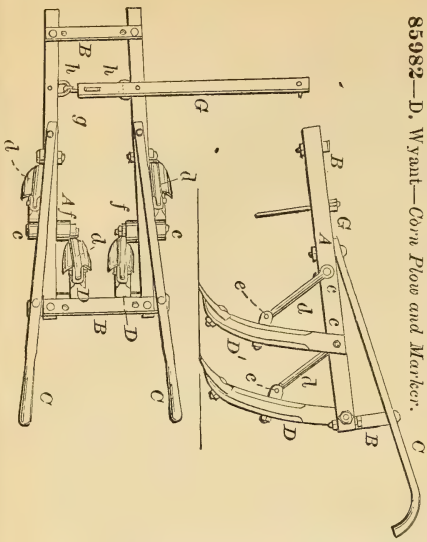


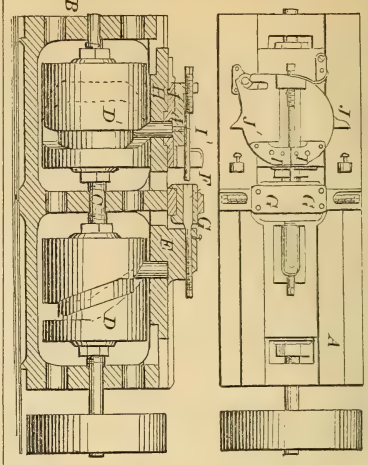

**85981**—J. C. Wood—*Loom.*



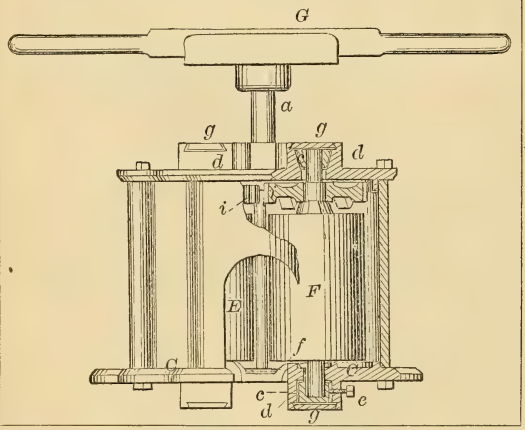
**85982**—D. Wyant—*Corn Plow and Marker.*



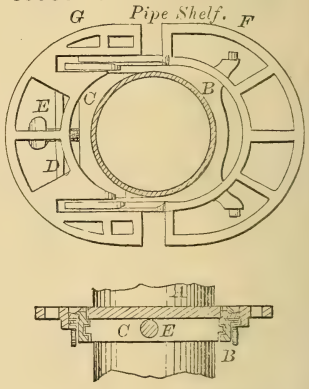
**85983**—J. R. Abbe—*For Heading Bolts.*



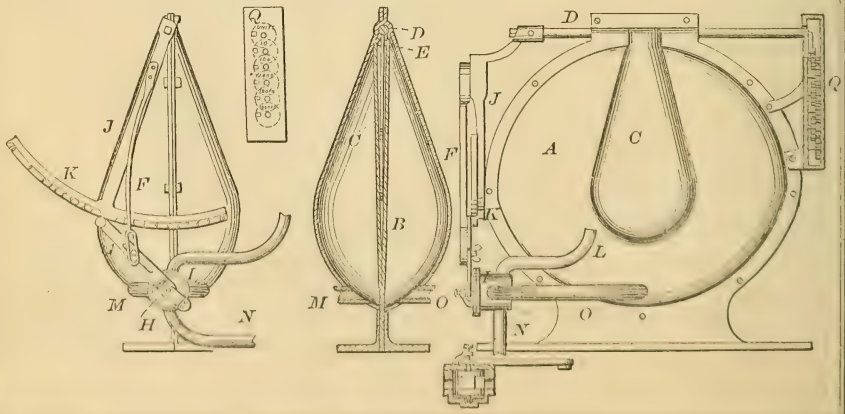
**85984**—Aikin & Bennett—*Sugar Cane Mill.*



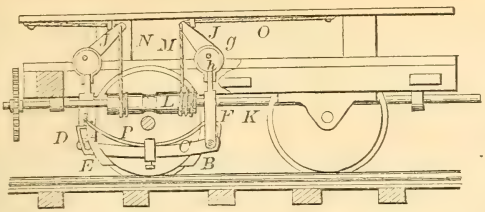
**85986**—S. J. Anderson—*Stove Pipe Shelf.*



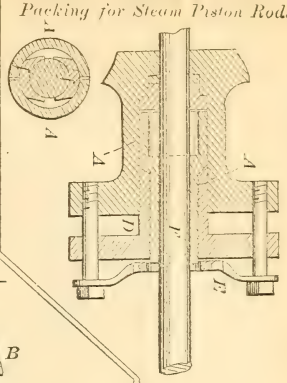
**85985**—Almqvist & Ofeldt—*Water Meter.*



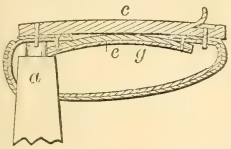
85987—J. H. Beatty—*Car Brake.*



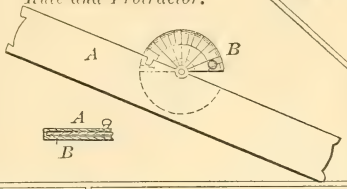

85988—Bertrand & Velut—*Packing for Steam Piston Rods.*



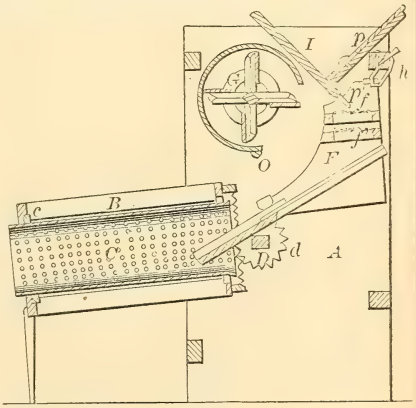

85989—L. R. Blake—*Boot.*




85991—R. A. Briggs—*Rule and Protractor.*

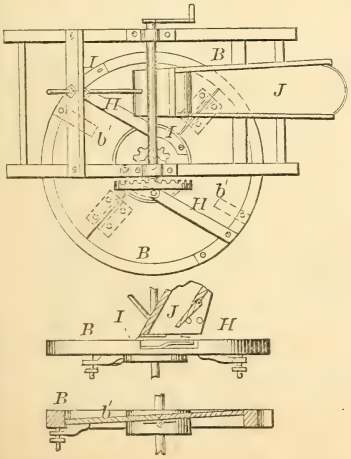



85990—L. Branson—*Geographic Game.*

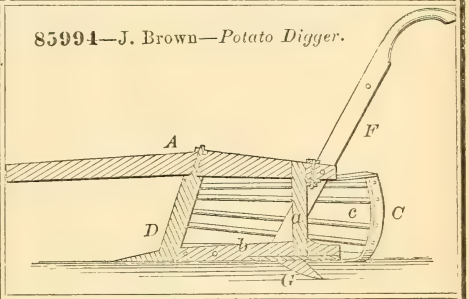



85992—G. E. Bringman—*Grain Separator.*

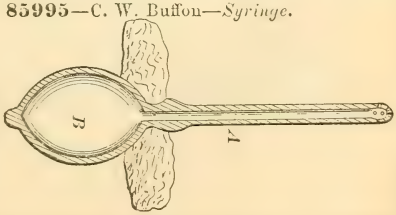
85993—C. H. Brown—*Straw Cutter.*



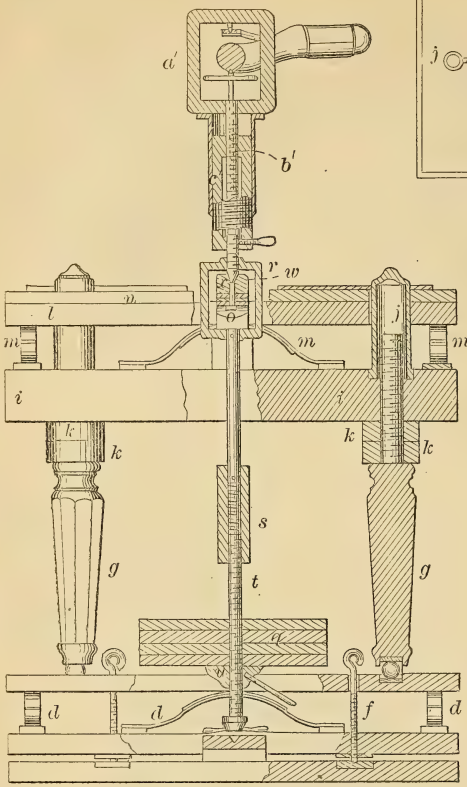

85994—J. Brown—*Potato Digger.*



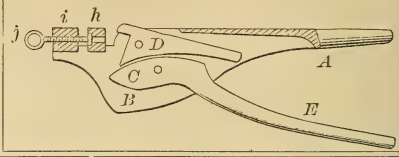

85995—C. W. Buffon—*Syringe.*



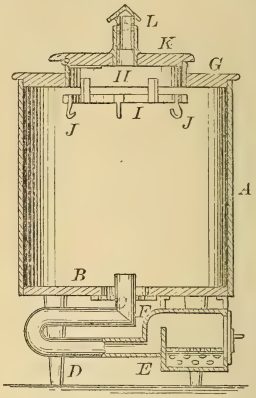
**85996**—D. P. Butler—*Gymnastic Apparatus.*



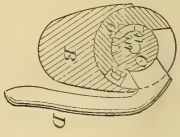

**85997**—Butler, Dunham & Wann—*For Sharpening Horse Shoe Calks.*

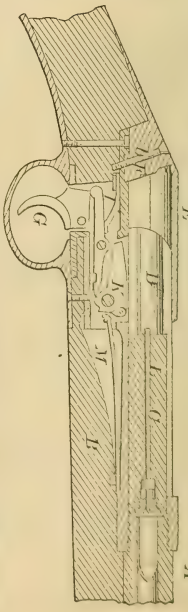



**85998**—R. T. Burnett—*Meat Smoking Apparatus.*

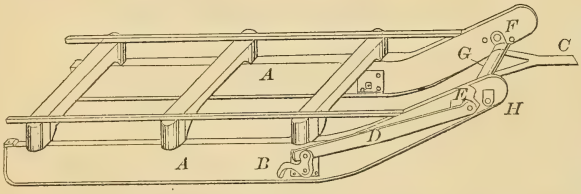



**85999**—Carter & Edwards—*Fire Arm.*

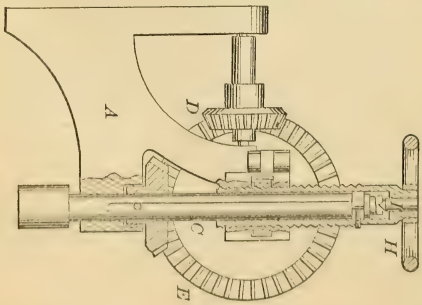


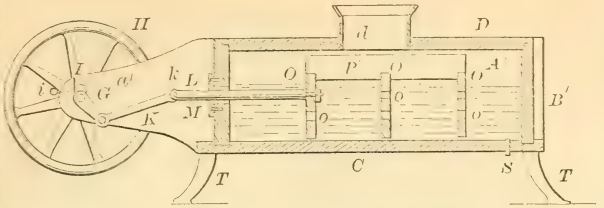

**86000**—F. A. Clark—*Sled Brake.*

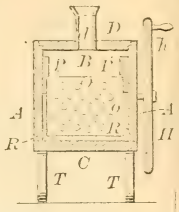



**86001**—C. W. Coe—*Drilling and Boat Tapping Machine.*

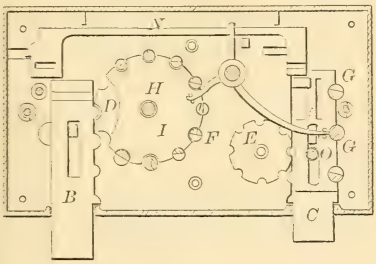


**86002**—J. B. Coffman—*Churn.*

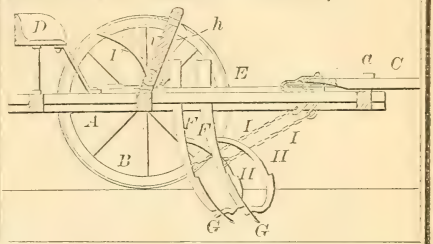


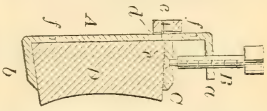

**86005**—G. W. Dana—*Permutation Lock.*

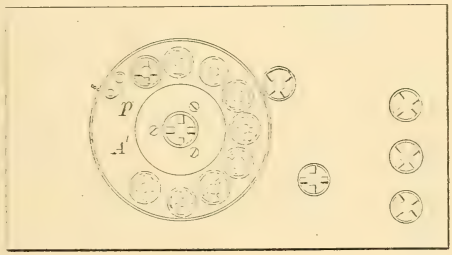


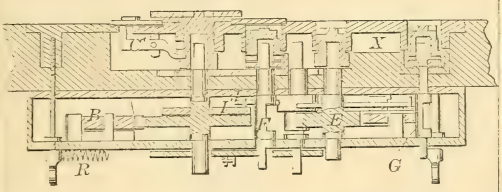

**86003**—J. H. Coleman—*Cultivator.*

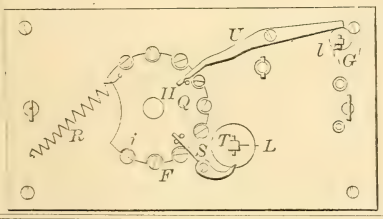



**86007**—A. W. Dorr—*Brake Block Holder.*

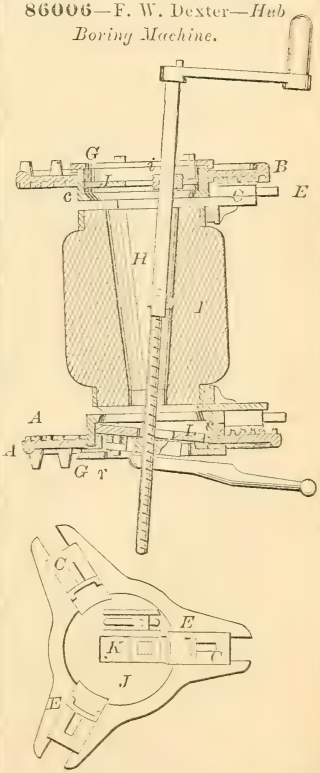




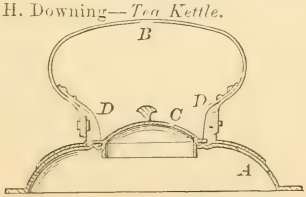



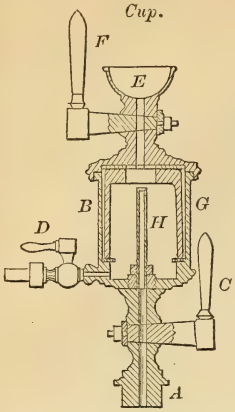

**86006**—F. W. Dexter—*Hub Boring Machine.*



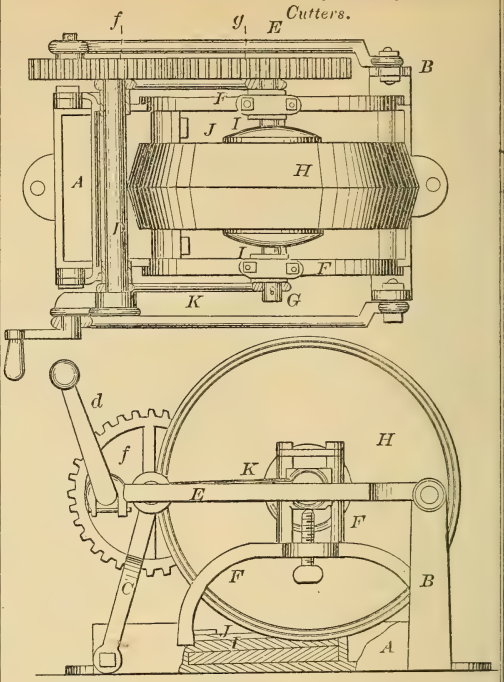

**86008**—J. H. Downing—*Tea Kettle.*



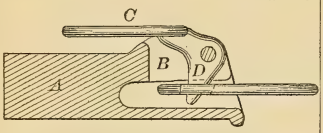
**86009**—I. Dreyfus—*Lubricating Cup.*



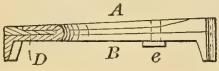

**86010**—M. Fowks—*For Grinding Mowing Machine Cutters.*



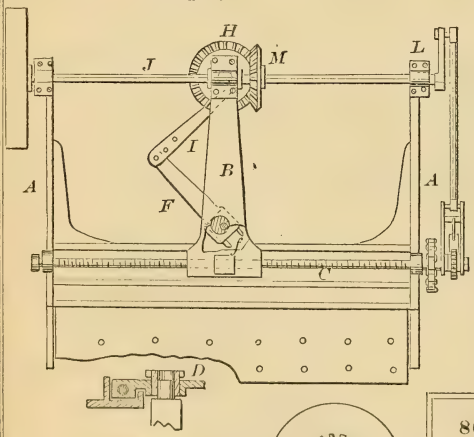

**86011**—W. H. Hall—*Car Coupling.*



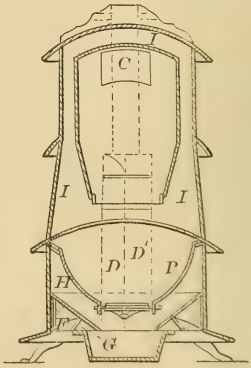

**86014**—H. S. Hitner—*Horse Shoe.*

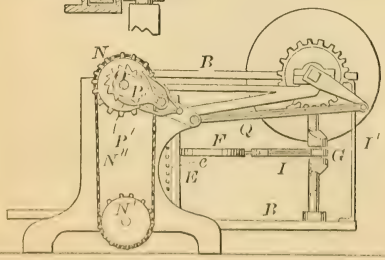



**86015**—J. E. T. Holmes—*For Dressing and Shaping Stone.*

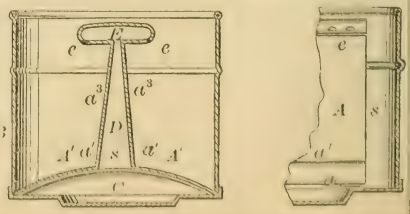


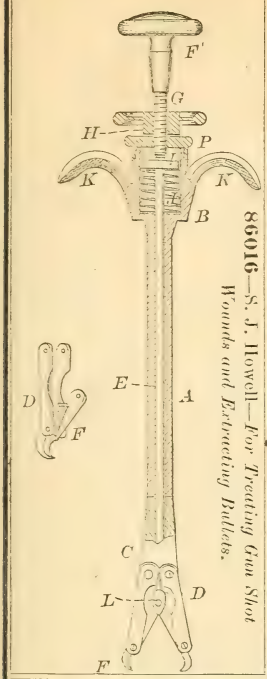

**86017**—Z. Hunt—*Stove.*



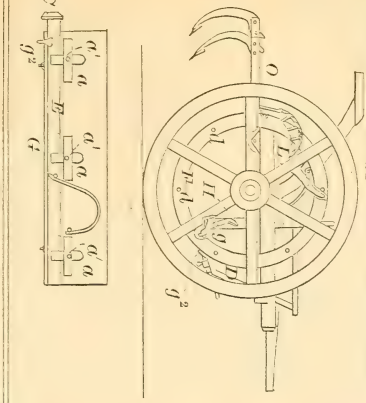




**86013**—W. D. Hillis—*Wash Boiler.*



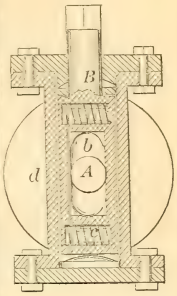



**86016**—S. J. Howell—*For Treating Gun Shot Wounds and Extracting Bullets.*

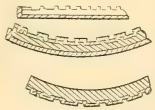



**86019**—H. C. Kellogg—*Sower and Cultivator.*

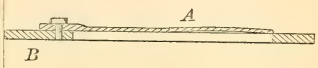
**86020**—H. P. Kreiner—*Stop Cock.*



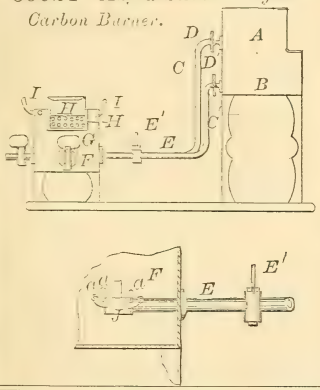

**86021**—H. & H. W. Lovejoy & Ferguson—*Electrotype and Stereotype Plate.*



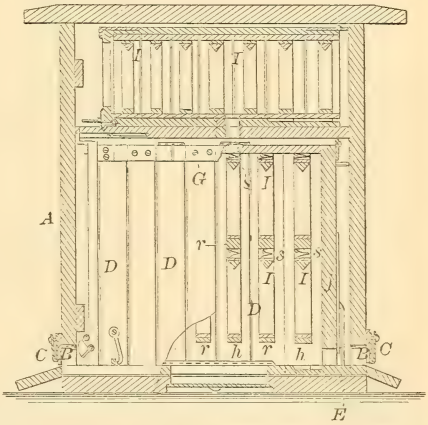
**86022**—R. R. Martino—*Reed for Musical Instruments.*



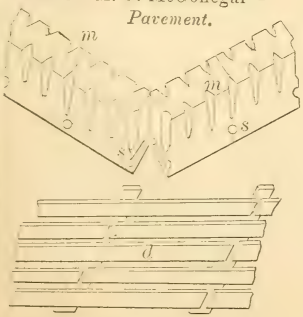

**86024**—May & Stivers—*Hydro-Carbon Burner.*



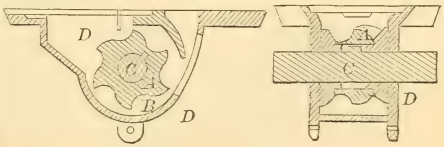

**86023**—Masten & Van Vlack—*Beehive,*



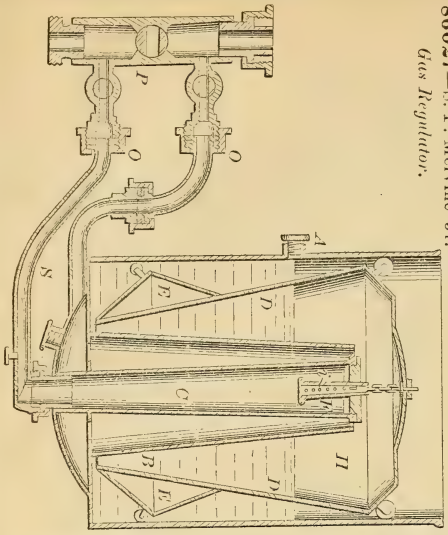

**86025**—H. G. McGonegal—*Pavement.*



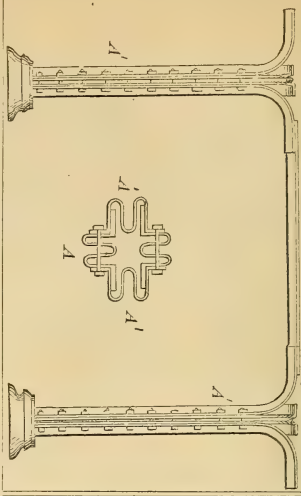

**86026**—D. E. McSherry—*Seeding Machine.*



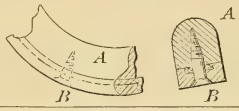
**86027**—S. P. Merrine Jr.—*Gas Regulator.*



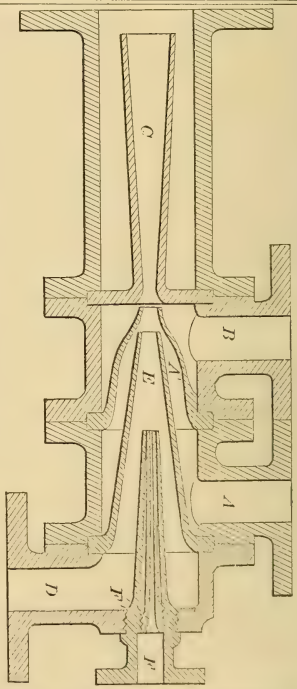

**86028**—R. Montgomery—*Metallic Column.*



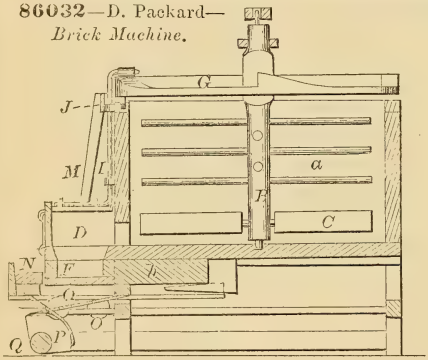

**86029**—B. F. Morey—*Wagon Tire.*

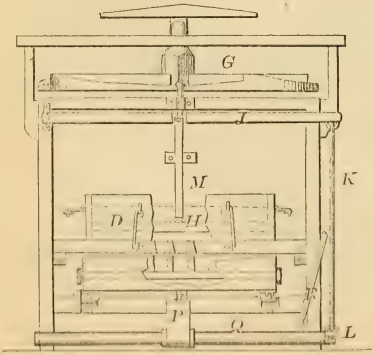



**86030**—A. Morton—*Injector.*



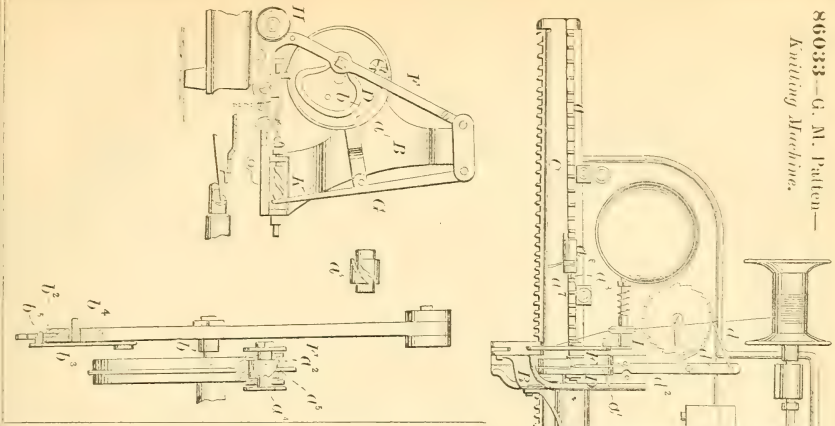

**86032**—D. Packard—*Brick Machine.*



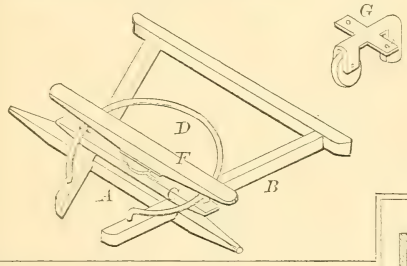




**86031**—W. S. Nelson—*Skating Floor.*

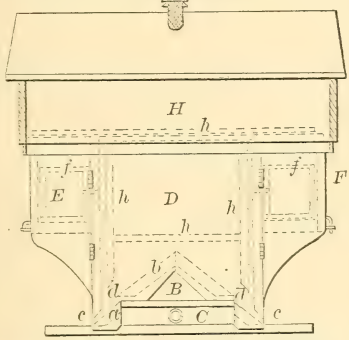
**86033**—G. M. Patten—*Knitting Machine.*



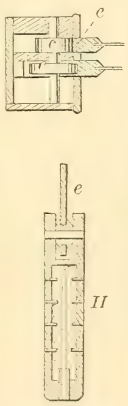
**86036**—J. H. Sawyer—*Wagon.*




**86037**—B. F. See—*Beehive.*




**86034**—T. T. Prosser—*Stash Balance.*




**86038**—C. Seimel—*Sheet Metal Can.*

Fig. 2

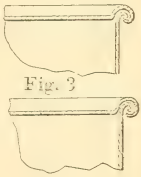
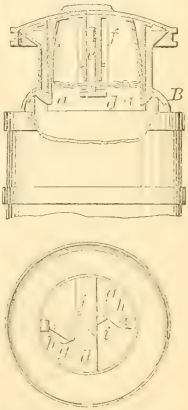
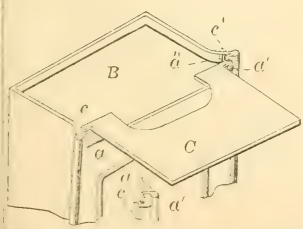


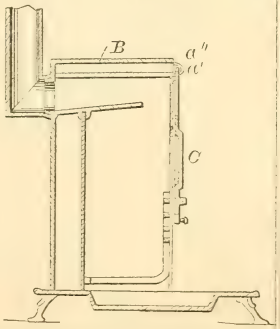
Fig. 3

**86039**—Shorte & Todd—*Milk Can.*

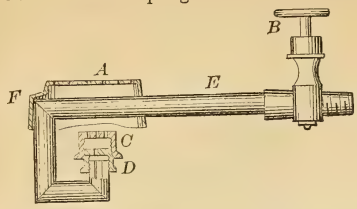



**86035**—A. J. Redway—*Fire Blower.*

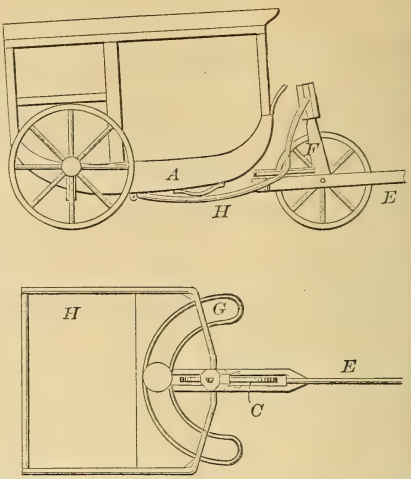


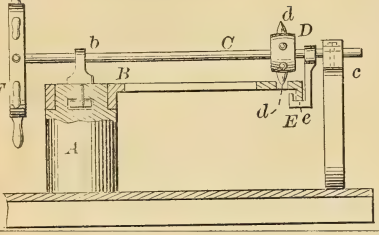
**86041**—J. D. Spang—*Gasoline Cook Stove.*



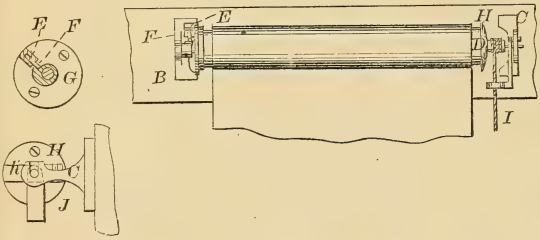

**86042**—H. M. Stow—*Omnibus.*



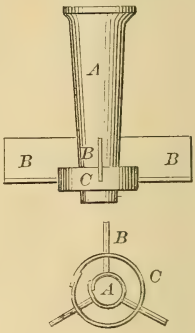

**86043**—N L. Tomlinson—*Steering Apparatus.*



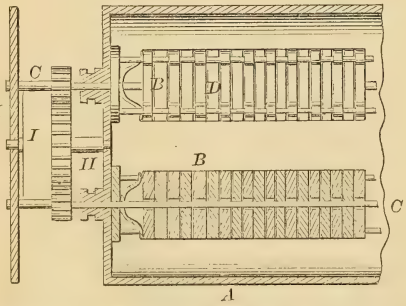

**86044**—Tripp & Boyd—*Curtain Fixture.*



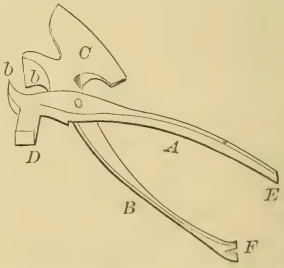

**86045**—J. T. Vaughn—*Peach Cutter.*



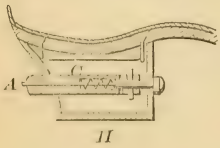

**86046**—P. Vera—*For Generating Heat by Friction.*




**86048**—C. Wetzler—*Implement.*

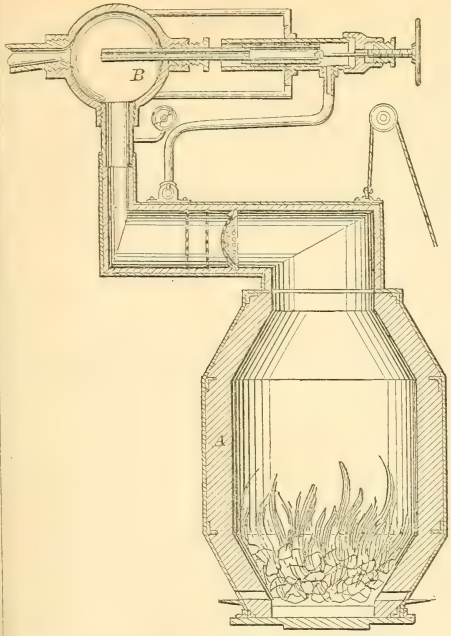



**86049**—C. F. Woodruff—*Boot Heel and Spur.*

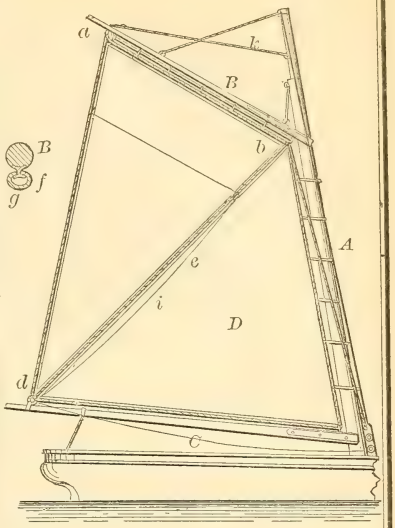



**86052**—R. Ayres—*Sled Brake.*

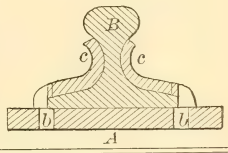
**86050**—J. Absterdam—*Refining and Purifying Iron.*



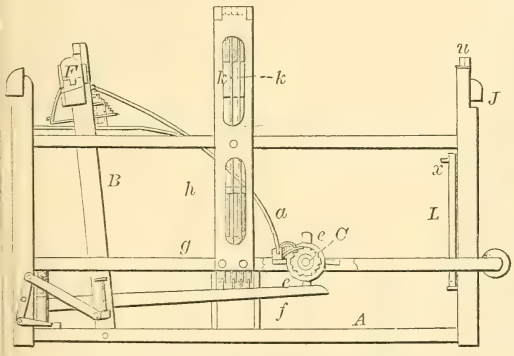

**86051**—H. R. Atwood—*Reefing Sails.*

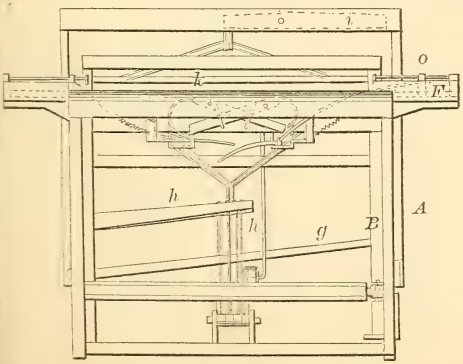



**86053**—D. D. Bigelow—*Railway Rail Chair.*

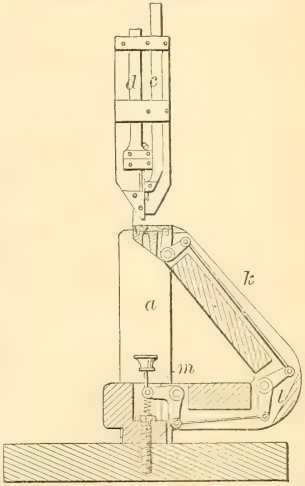



**86055**—Brown & Hunt—*Hand Power Loom.*

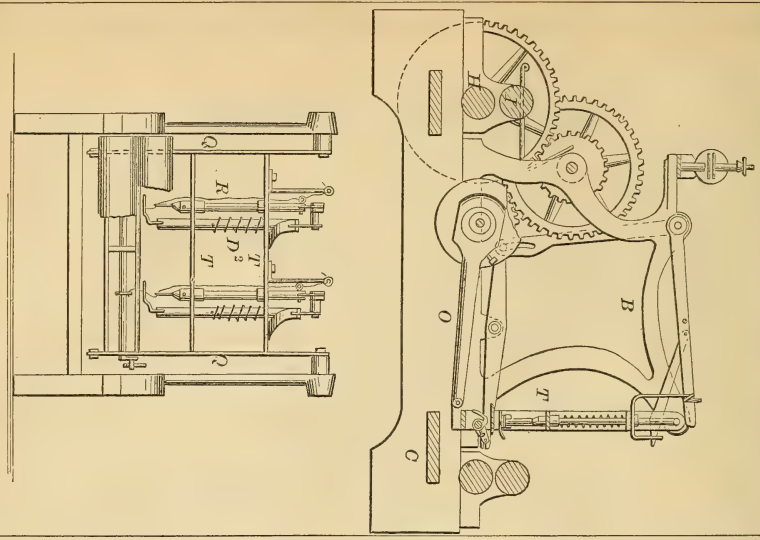


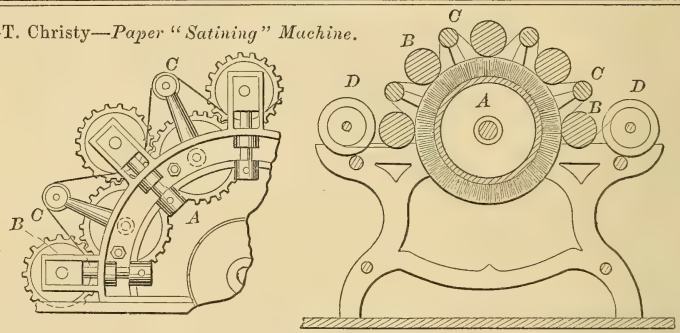

**86054**—L. R. Blake—*Shoe Pegging and Nailing Machine.*



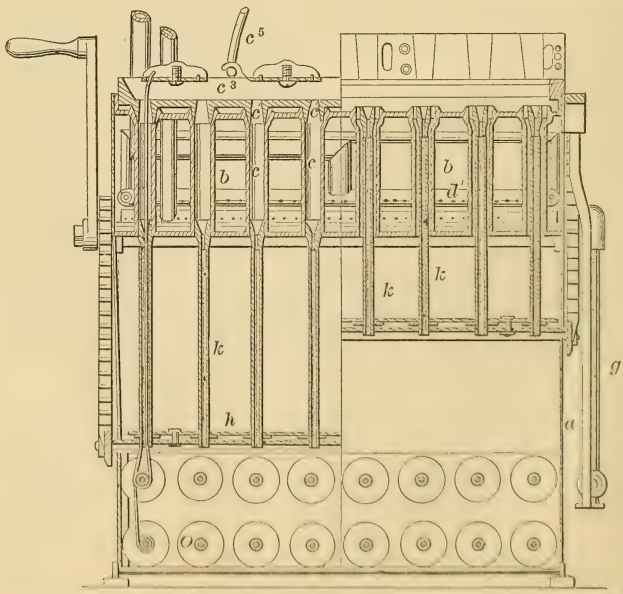
**86057**—F. P. Canfield—*For Sewing Parallel Seams.*



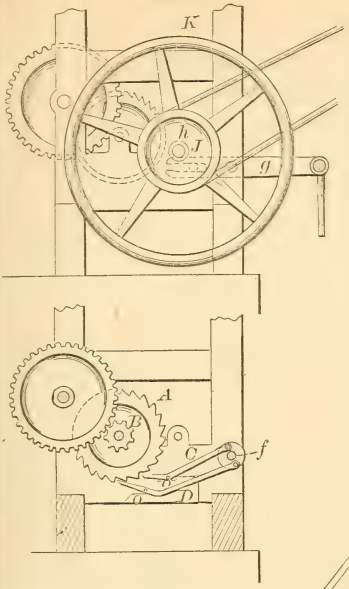

**86058**—T. Christy—*Paper "Satining" Machine.*



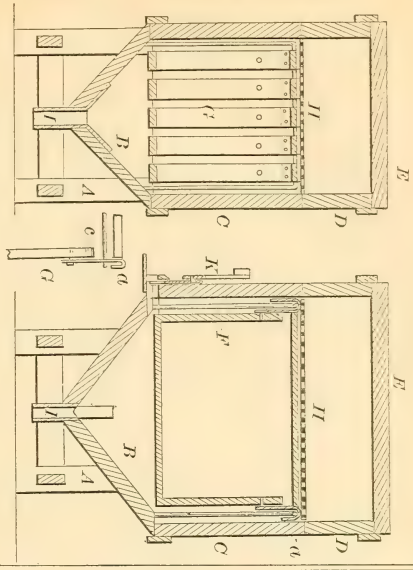

**86059**—E. Cowles—*For Making Candles.*



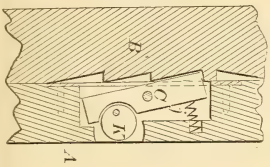
**86060**—F. Creamer—*Mechanical Movement.*



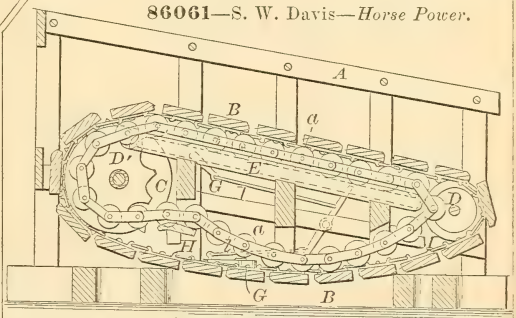

**86063**—T. S Engledow—*Beehive.*

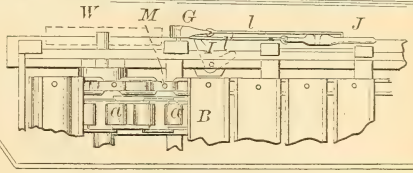


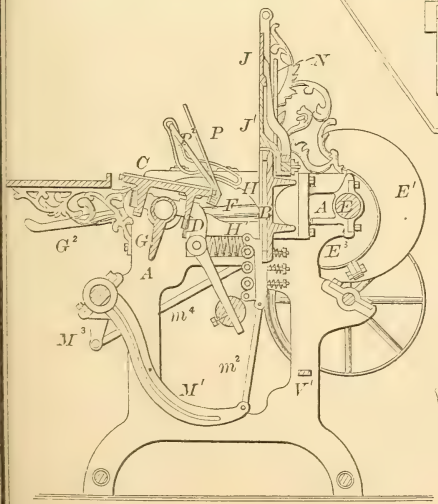

**86062**—W. A. Devon—*Sash Holder.*



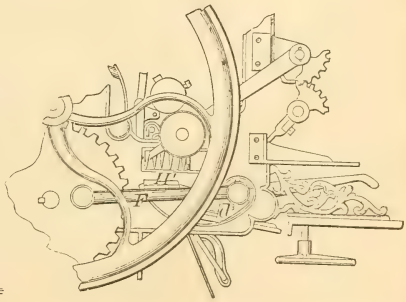

**86061**—S. W. Davis—*Horse Power.*



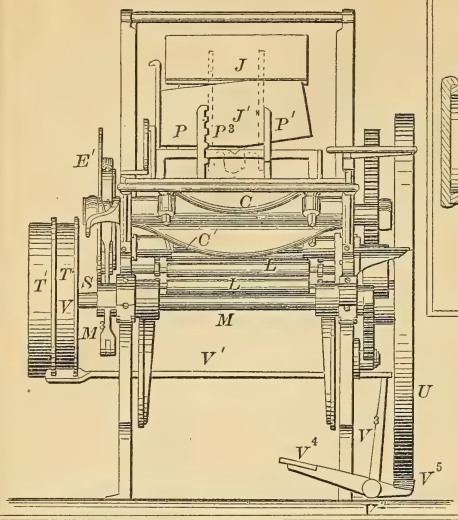



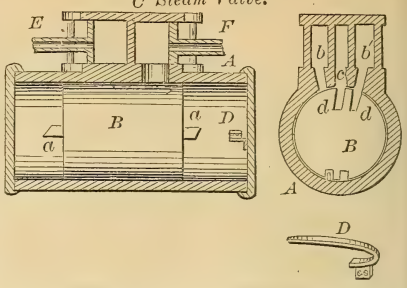

**86064**—W. H. Forbush—*Printing Press.*



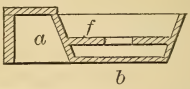
**86064**—*Continued.*



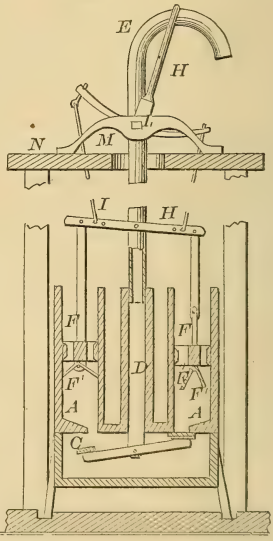

**86067**—Gray & Brittingham—*Piston C Steam Valve.*



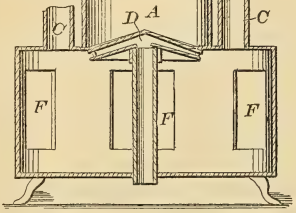

**86066**—T. Gladding—*Salt Trough for Cattle.*



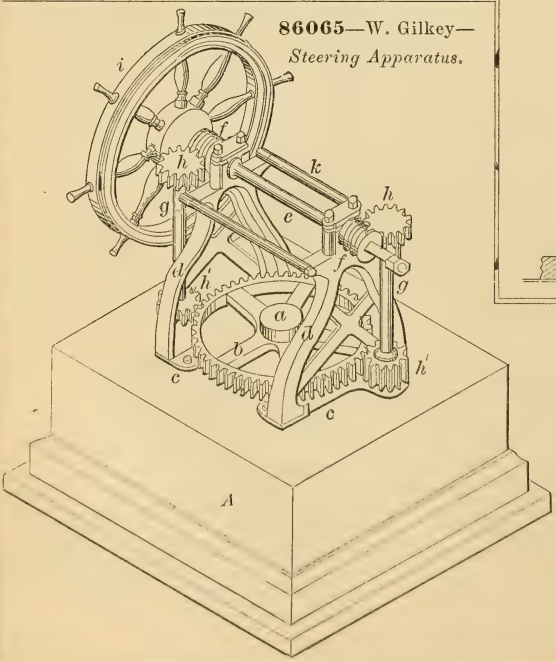

**86071**—C. C. Hiatt—*Force Pump.*



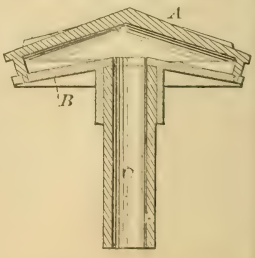

**86072**—E. Hosford—*Stove.*



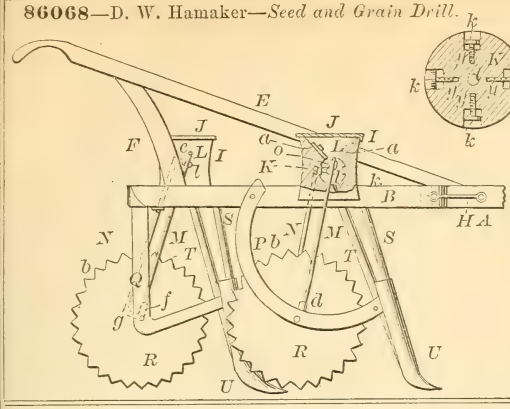

**86065**—W. Gilkey—*Steering Apparatus.*

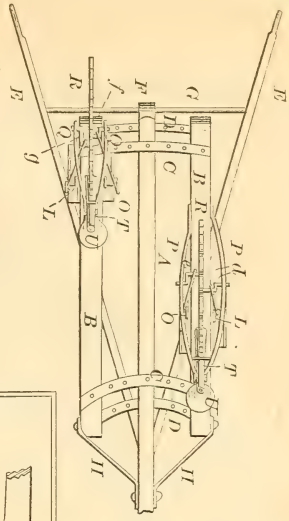



**86069**—Harwood & Newton—*Stove Grate.*

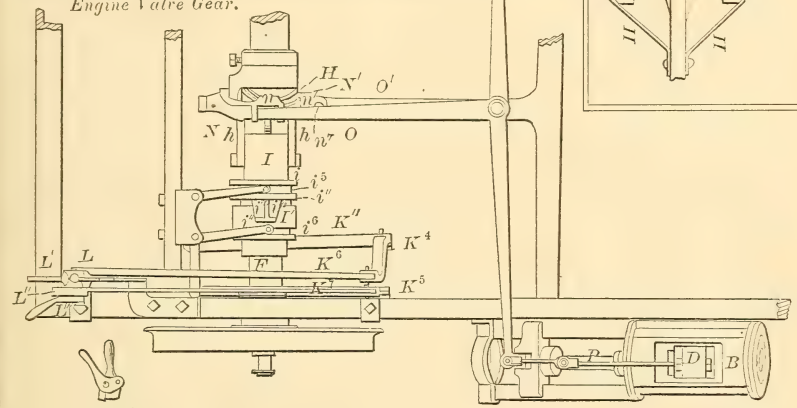


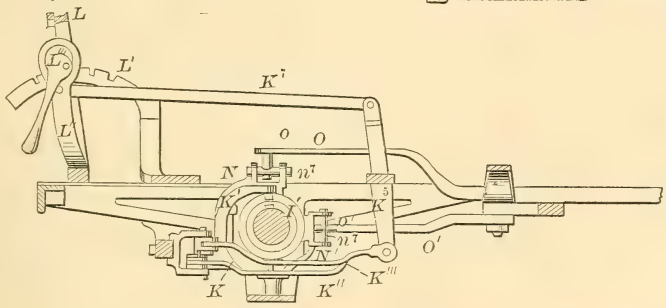
**86068**—D. W. Hamaker—*Seed and Grain Drill.*



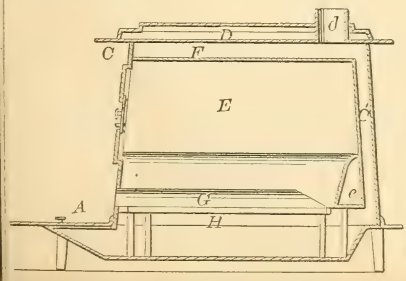


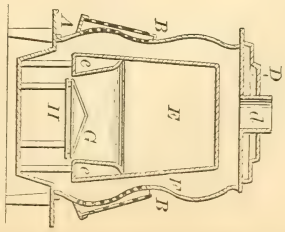
**86070**—Heupel, Reinhardt & Votteler—*Steam Engine Valve Gear.*



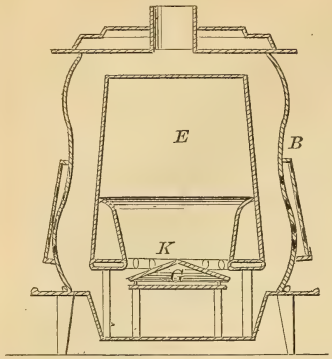


**86073**—E. Hosford—*Stove.*

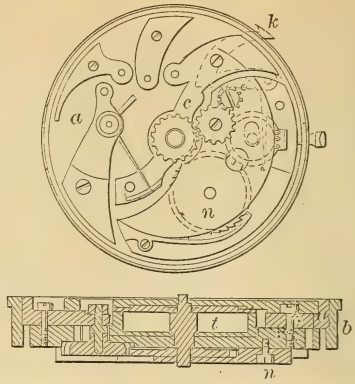




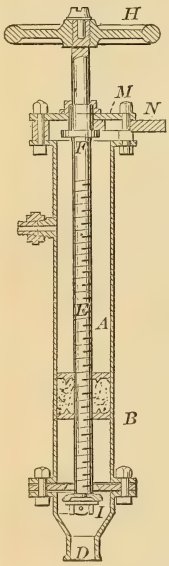
**86074**—C. D. Newton—*Bed Plate for Stoves.*



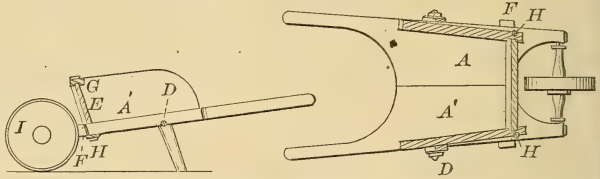

**86075**—C. E. Jacot—*Watch.*




**86076**—E. T. Jenkins—*Hydrant.*

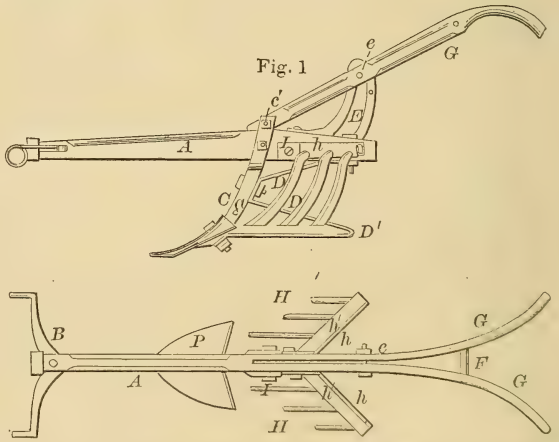



**86077**—C. C. Johnson—*Wheelbarrow.*

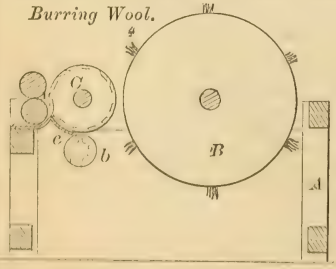



**86079**—J. H. & H. P. Jones—*Plow.*

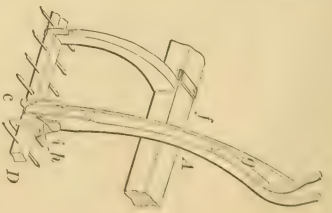
Fig. 1



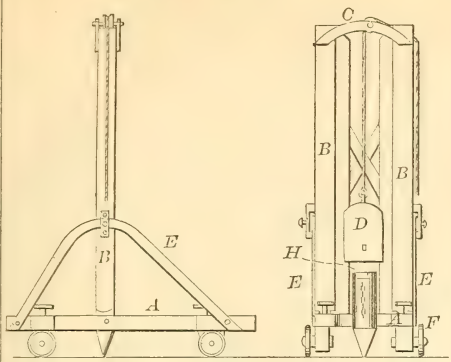

**86078**—D. L. & G. T. Jones—*For Burring Wool.*



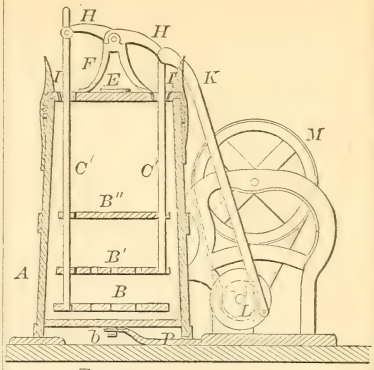

**86080**—W. S. Kincaid—*Horse Hay Rake.*

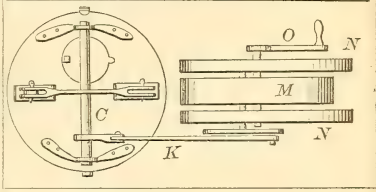


**86081**—J. M. Kirkpatrick—*Fence Builder.*

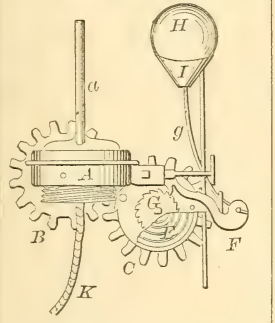



**86083**—Köhler & Wilson—*Churn.*

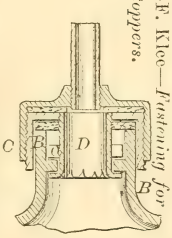


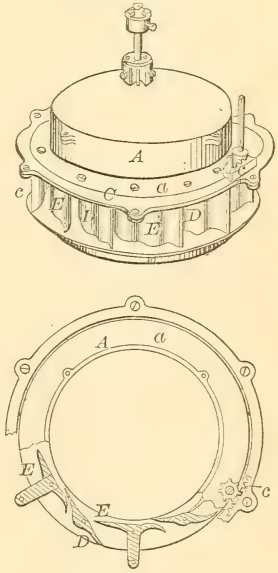

**86084**—C. Lanzendorfer—*Lamp Extinguisher.*



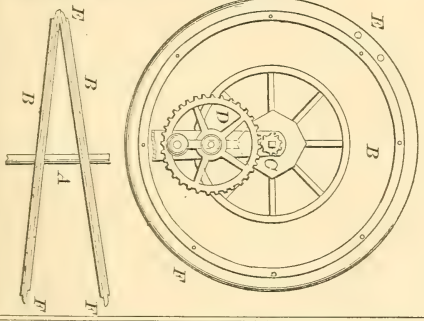

**86082**—F. Klee—*Fastening for Bottle Stoppers.*



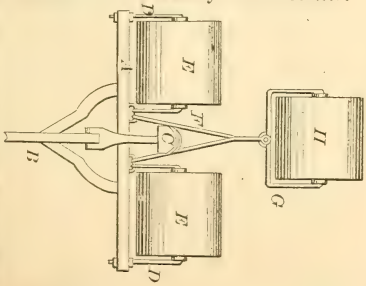

**86085**—T. Leffel—*Case for Turbine Water Wheels.*



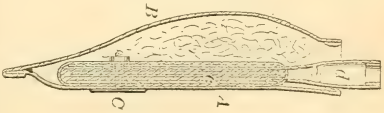

**86086**—A. C. Loud—*Propeller.*



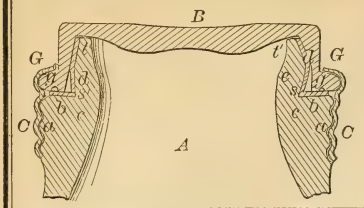

**86087**—H. P. Manley—*Land Roller.*



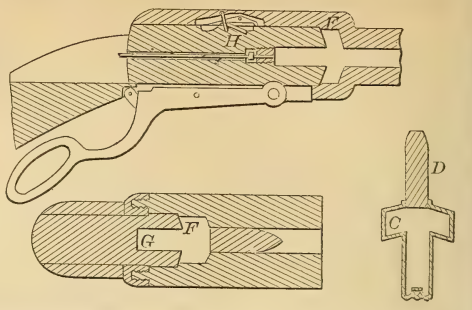

**86088**—C. Maray—*Galvanic Plate for Remedial Purposes*



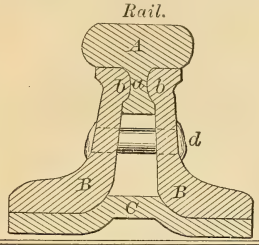
**86089**—J. L. Mason—*Fruit Jar.*



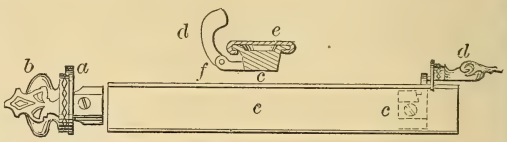

**86091**—L. A. Merriam—*Fire Arm.*



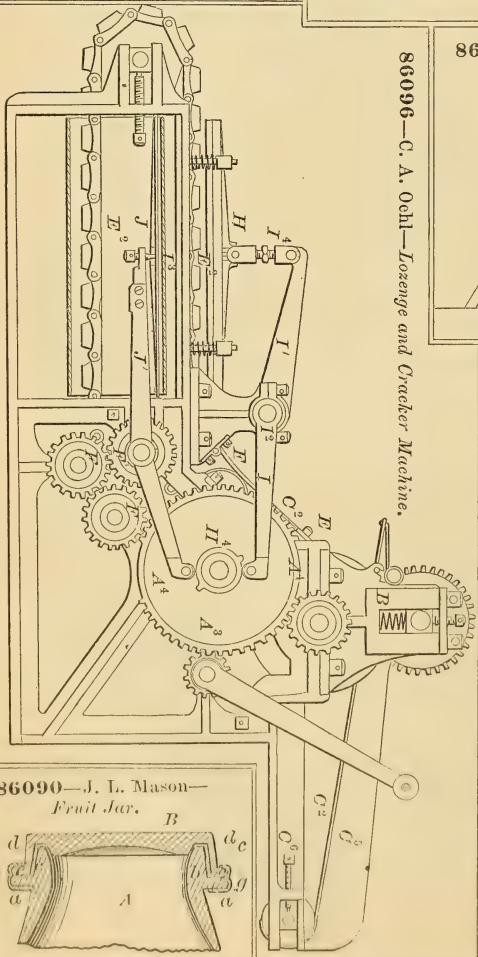

**86093**—J. H. Moore—*Railway Rail.*



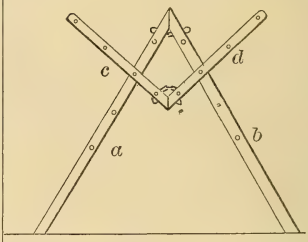

**86092**—W. T. Mersereau—*Stair Rod.*



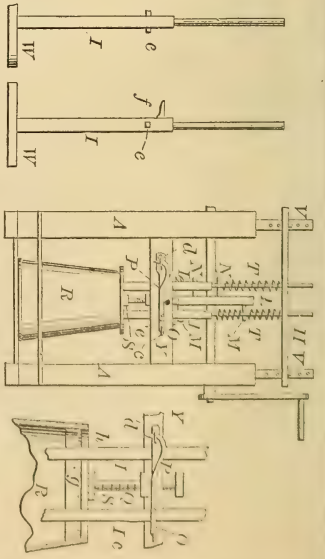

**86096**—C. A. Ochl—*Lozenge and Cracker Machine.*




**86095**—C. R. Mumma—*Clothes Dryer.*

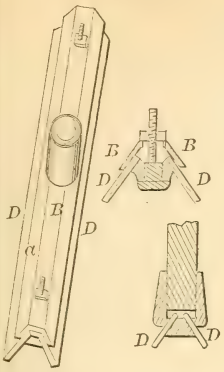



**86094**—Morter & Packer—*Churn.*

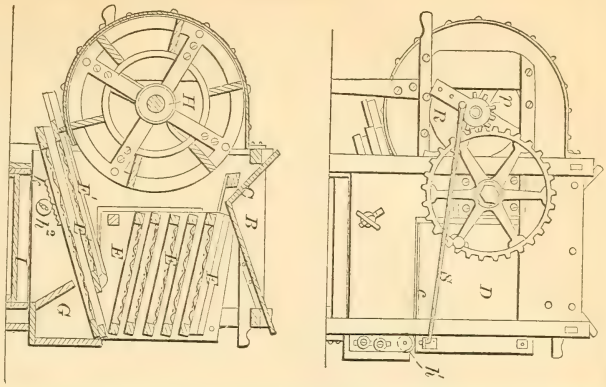



**86090**—J. L. Mason—*Fruit Jar.*

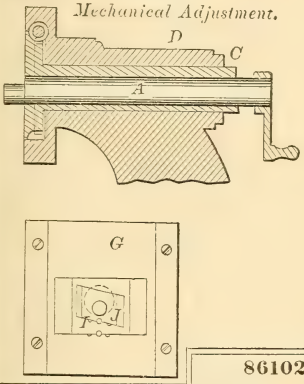
**86097**—J. Old—*Gum Scrubber.*



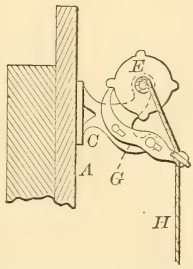
**86099**—J. F. Pool—*Fanning Mill.*



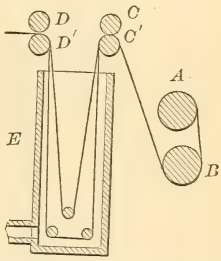
**86098**—W. F. Parker—*Mechanical Adjustment.*



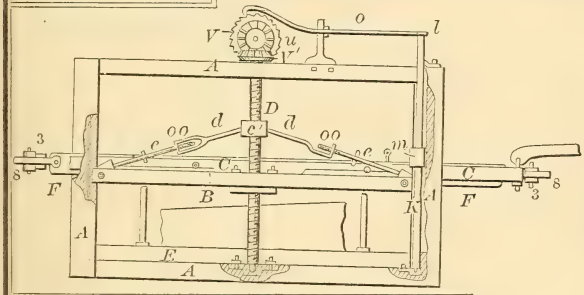
**86100**—S. S. Putnam—*Curtain Fixture.*

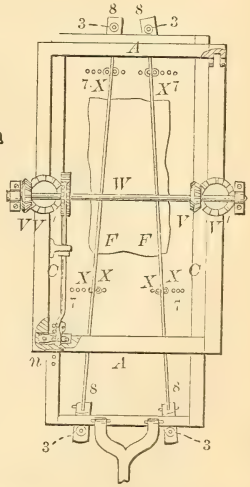


**86103**—J. Scoffern—*For Treating Paper and Woven Fabrics.*

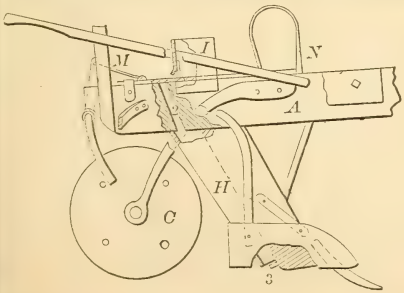


**86102**—A. Rothwell—*Stone Sawing Machine.*

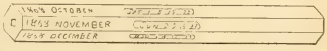




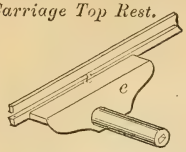
**86105**—W. Scott—*Corn Planter and Cultivator.*



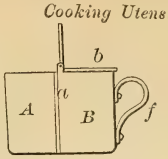
**86101**—J. Reckendorfer—*Lead Pencil.*



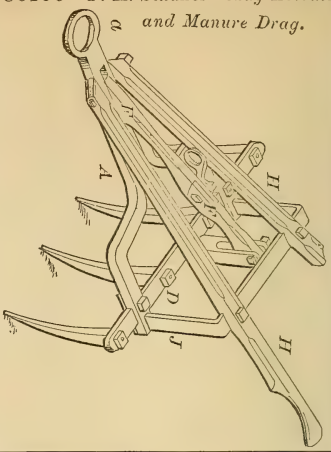
**86107**—W. O. Snyder—*Carriage Top Rest.*



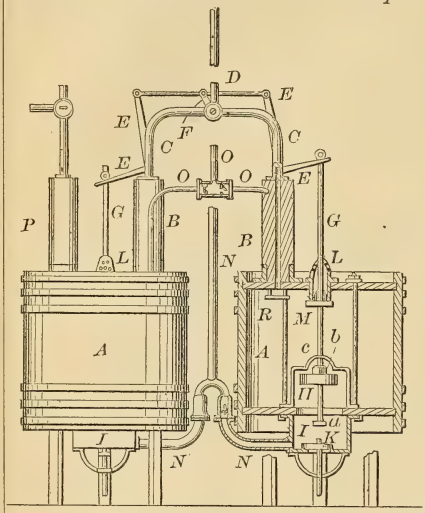

**86108**—S. Spoor—*Cooking Utensil.*



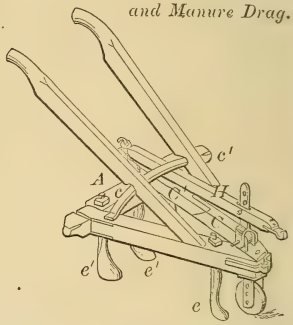

**86109**—P. H. Stauffer—*Hay Elevator and Manure Drag.*



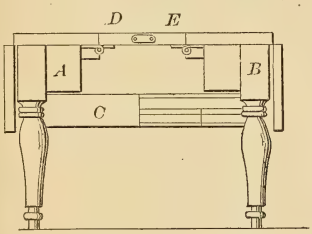

**86111**—Stevens & Denton—*Steam Pump.*



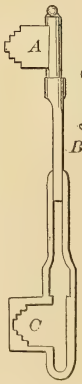

**86110**—P. H. Stauffer—*Hay Elevator and Manure Drag.*



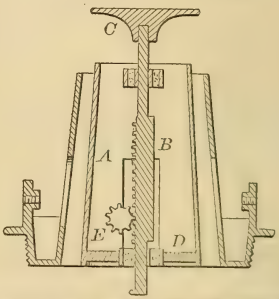

**86113**—B. D. Sutlief—*Table.*



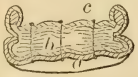

**86114**—A. Vang—*Key.*



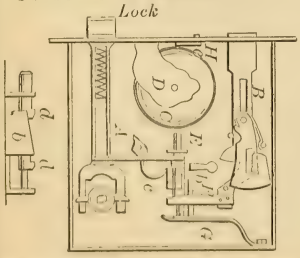

**86118**—W. H. Smith—*Lamp.*



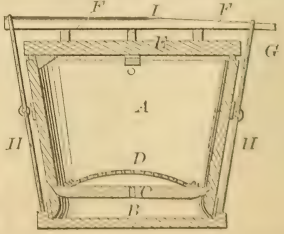

**86112**—R. C. Sturges—*Harness Saddle Pad.*



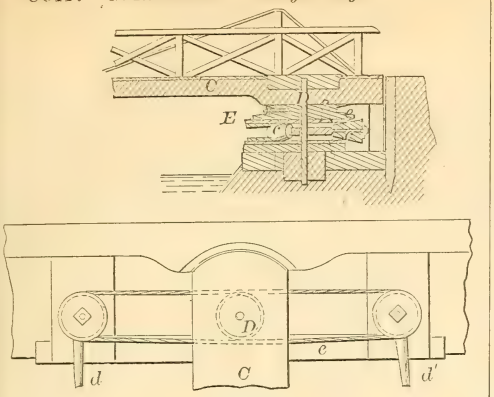

**86116**—O. D. Warner—*Alarm Lock*



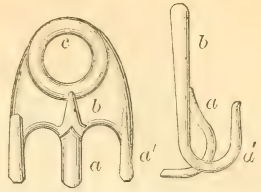

**86115**—B. P. Van Marter—*Tub for Distilling Essential Oils.*



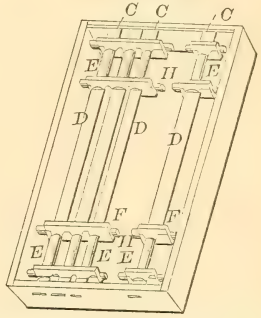
**86117**—G. R. Winkler—*Swing Bridge.*



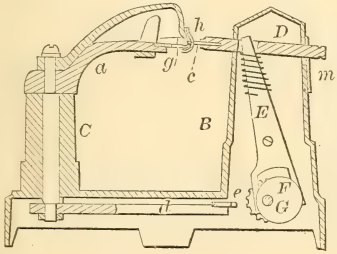

**86119**—W. Allport—*Cattle Tie.*

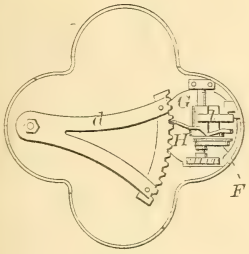


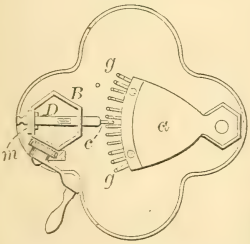

**86120**—J. H. Almond—*Spring Bed Bottom.*



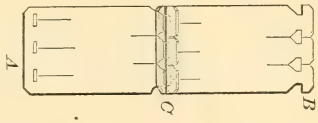

**86121**—B. Arnold—*For Mending Stockings.*



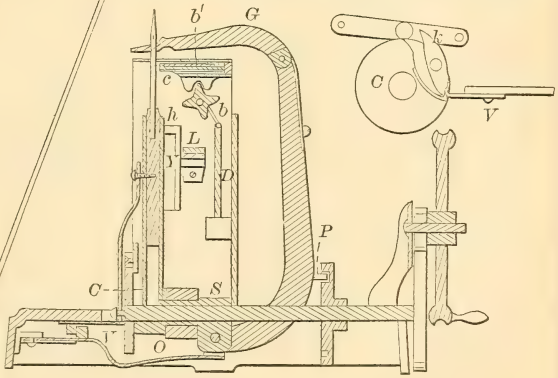



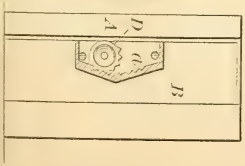

**86123**—J. Ashworth—*Splicing Belts.*

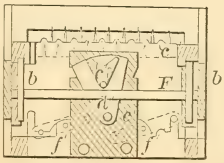


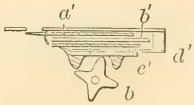

**86122**—B. Arnold—*For Mending Stockings.*

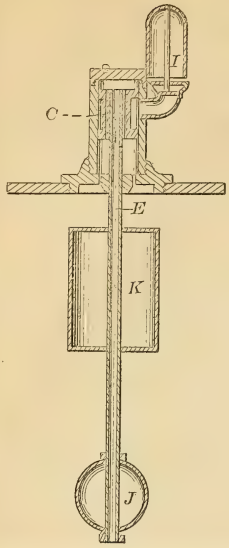



**86124**—Ballard & Killin—*Sash Lock.*



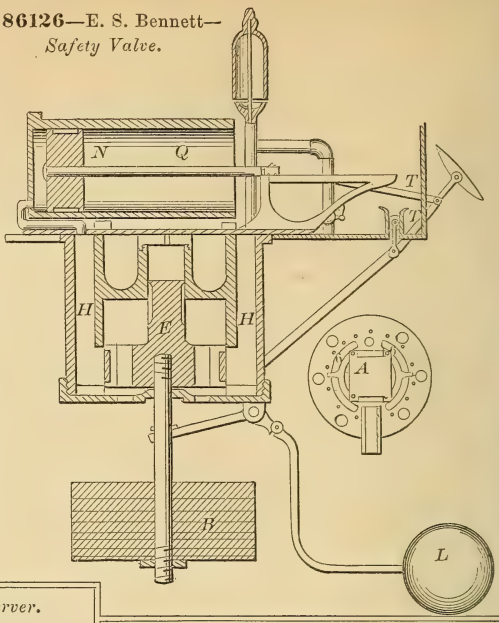



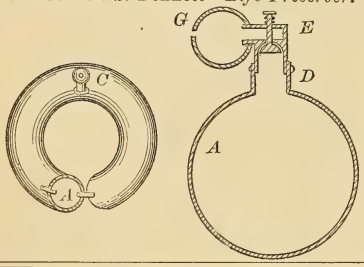



**86125**—E. S. Bennett—*Low Water Detector for Steam Boilers.*

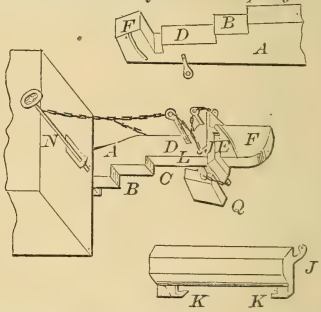
**86126**—E. S. Bennett—*Safety Valve.*



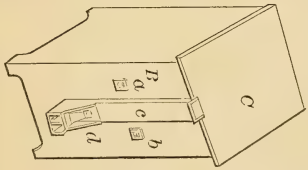

**86127**—E. S. Bennett—*Life Preserver.*



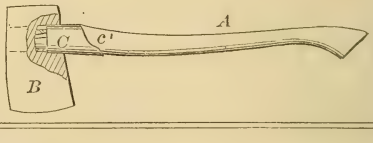

**86129**—A. J. Braley—*Car Coupling.*



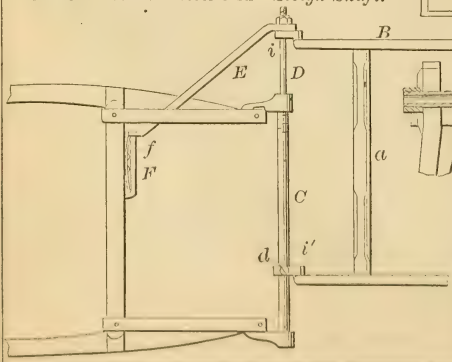

**86128**—W. Black—*Beehive.*

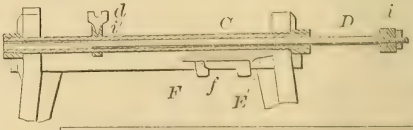



**86130**—B. Butler—*Axe Handle Shield.*

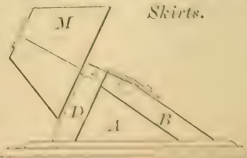



**86131**—C. H. Butterfield—*Sleigh Shaft.*

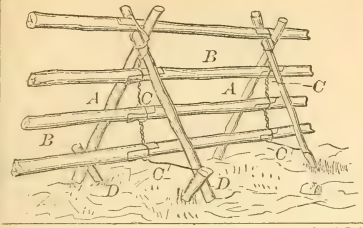


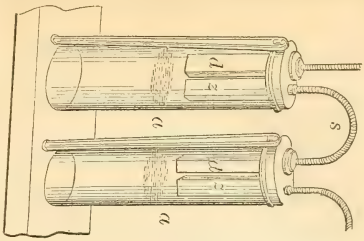

**86132**—Byrne & Henry—*For Printing Skirts.*



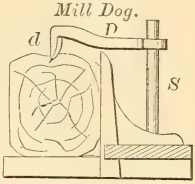
**86133**—V. Calkins—*Farm Fence.*



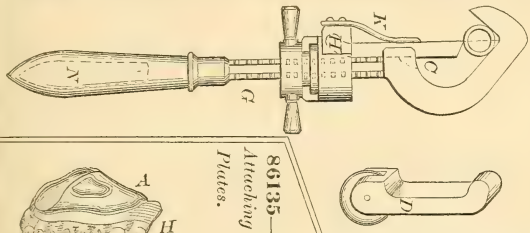

**86134**—C. T. Chester—*Galvanic Battery.*



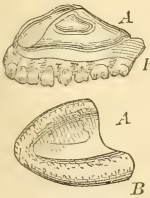

**86136**—J. Cobleigh—*Saw Mill Dog.*



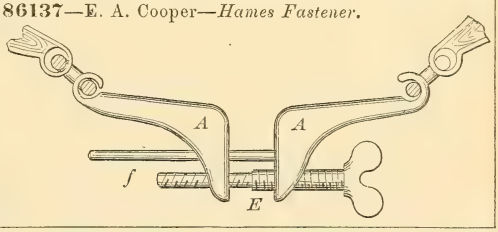

**86138**—R. A. Copeland—*Pipe Wrench and Cutter.*



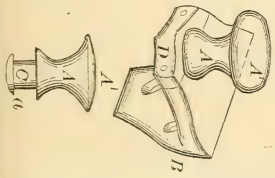

**86135**—A. Clark—*For Attaching Teeth to Dental Plates.*



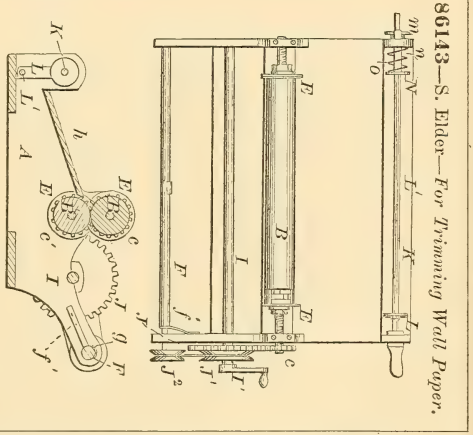

**86137**—E. A. Cooper—*Hames Fastener.*



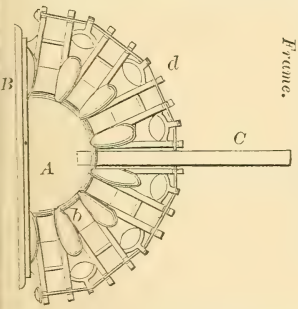

**86139**—S. Crowell—*Clothes Line Stretcher.*



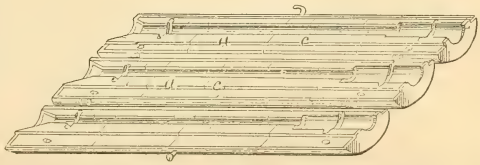

**86143**—S. Elder—*For Trimming Wall Paper.*



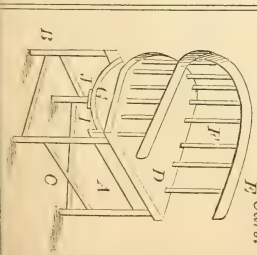

**86140**—J. Danner—*Clothes Frame.*



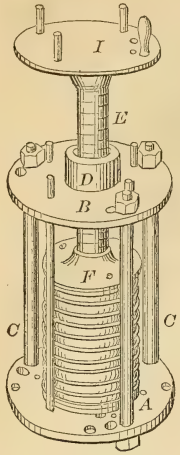

**86144**—Farrar & Whiting—*Flask for Moulding Pipe.*



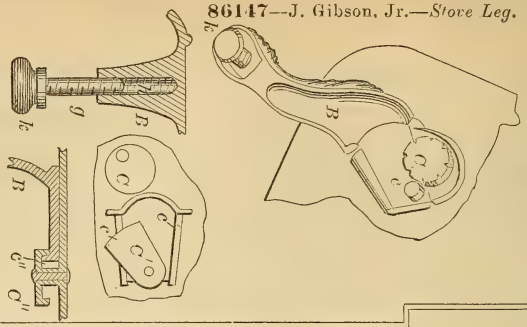

**86141**—B. M. Darling—*Seat for Chairs and Cars.*



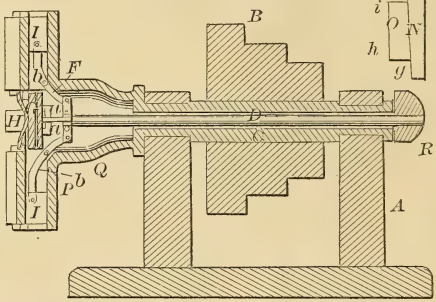
**86146**—T. Fowler—*For Expelling Water from Cloth.*



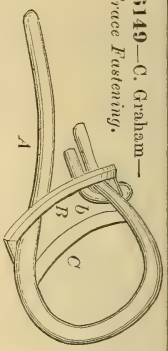

**86147**—J. Gibson, Jr.—*Stove Leg.*



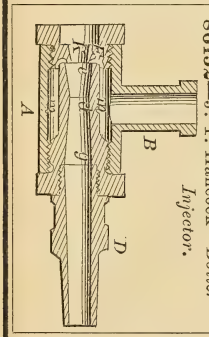

**86148**—G. D. Goodrich—*Clay Machinery.*




**86149**—C. Graham—*Trace Fastening.*

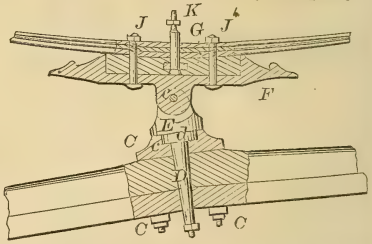



**86152**—J. T. Hancock—*Boiler Injector.*

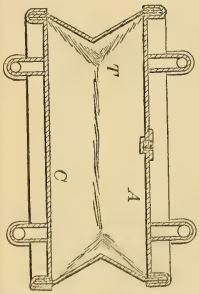



**86154**—M. Hiltz—*Fish Hook.*

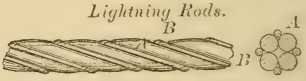
**86150**—L. Grim—*Carriage Coupling.*



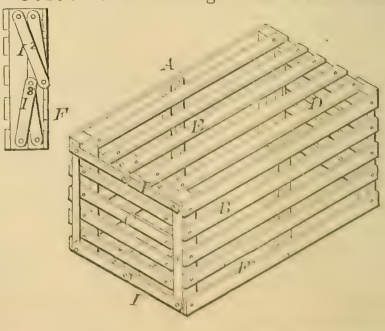

**86155**—J. E. Hobbs—*Gasometer.*



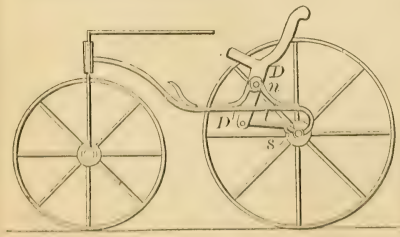

**86151**—Hamilton & Stevens—*Constructing Lightning Rods.*



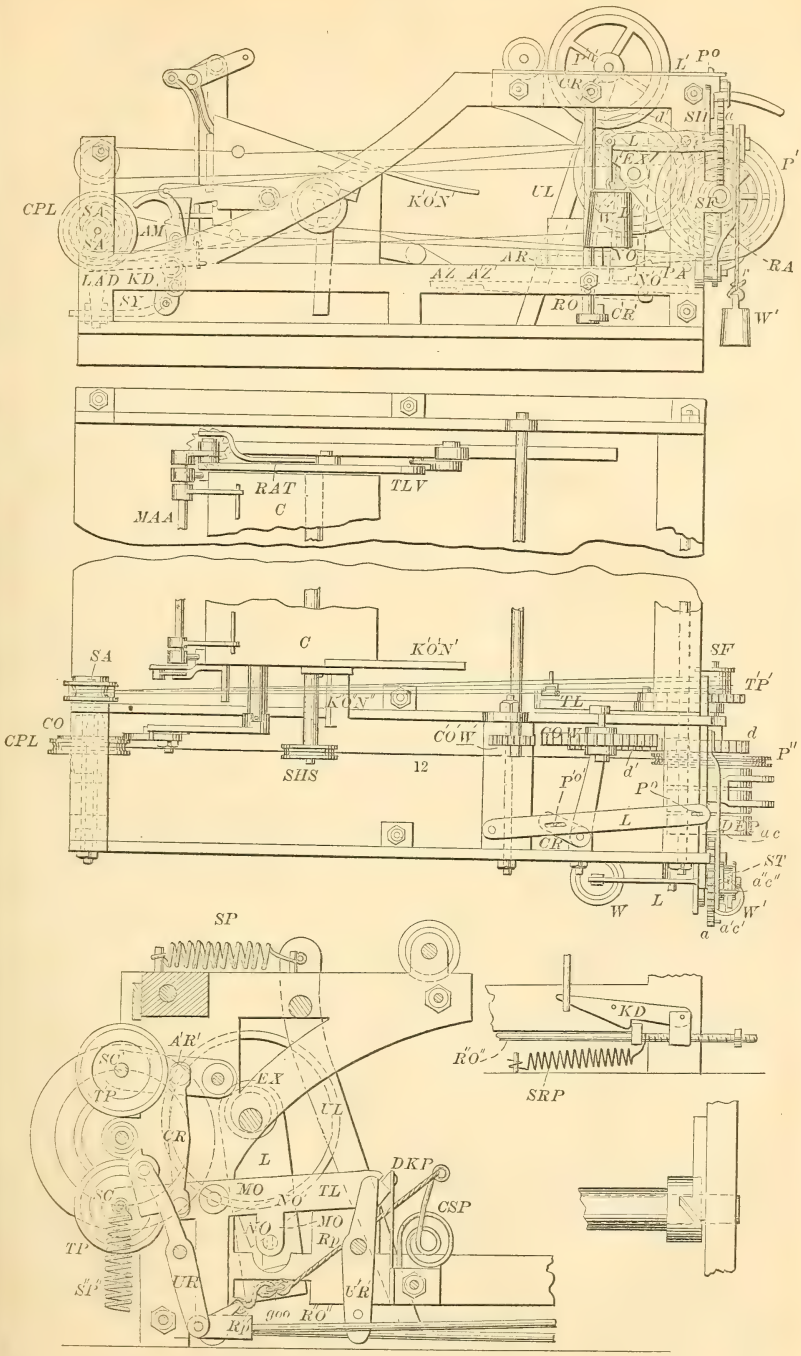

**86157**—J. H. Hollingsworth—*Fruit Box.*



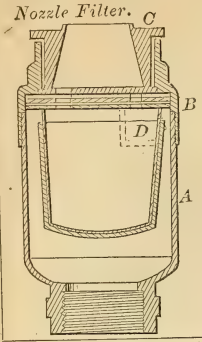

**86153**—J. E. Hawkins—*Velocipede.*



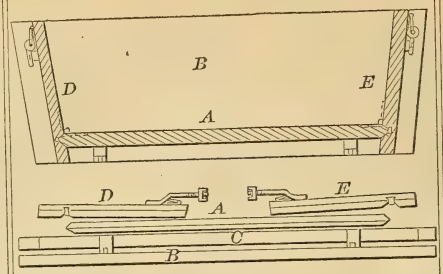
**86156**—Holcroft, Pearson & Shore—*Self-Acting Spinning Machine.*



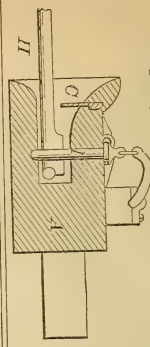
**86158**—H. Houston—*Nozzle Filter.*



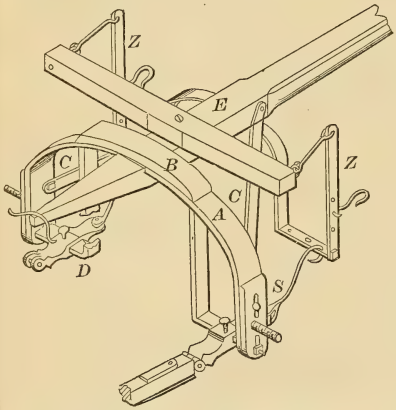

**86159**—C. H. Hudson—*Folding Tub.*

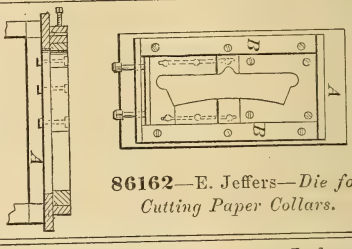



**86161**—Hurd & Ardinger—*Car Coupling.*



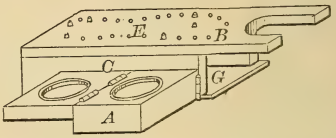

**86160**—J. Huff—*Cultivator.*



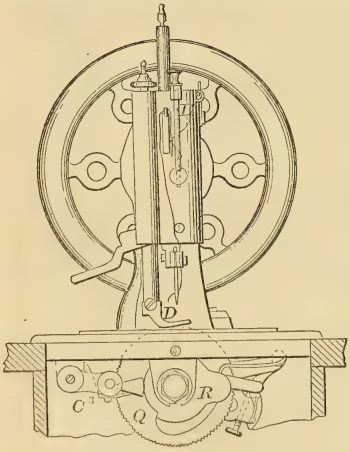



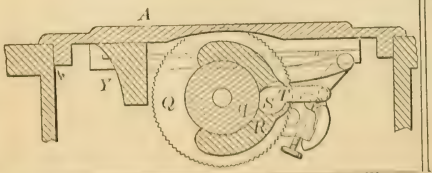

**86162**—E. Jeffers—*Die for Cutting Paper Collars.*

**86165**—L. P. Keach—*Boot Jack and Blacking Cabinet.*

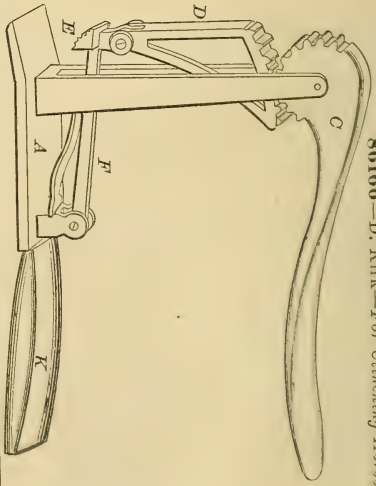



**86163**—J. T. Jones—*Sewing Machine.*

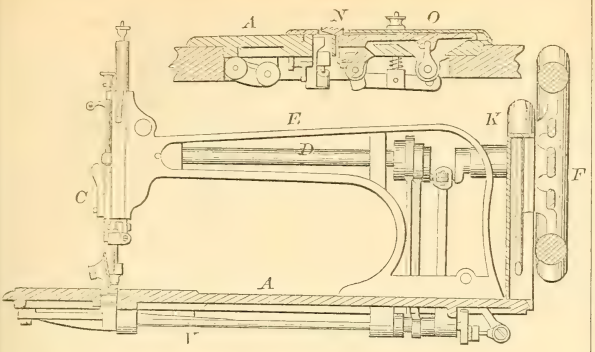


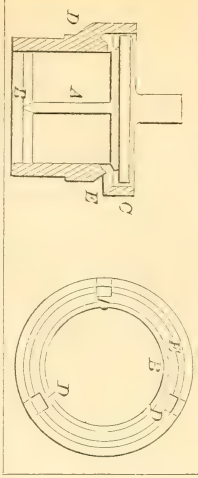

**86166**—D. Kirk—*For Clinching Horse Shoe Nails.*

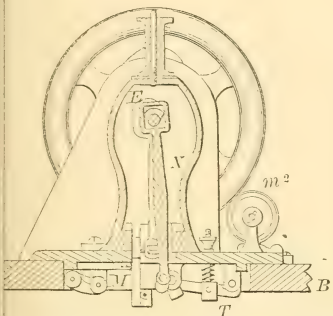


86164—J. T. Jones—*Sewing Machine.*

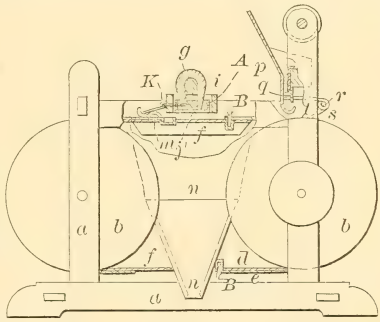


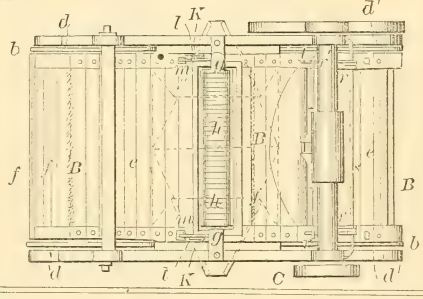

86168—W. H. Low—*Steam Safety Valve*



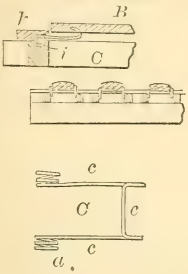




86167—La Rue & Amlet—*For Separating Magnetic from Non-Magnetic Substances.*

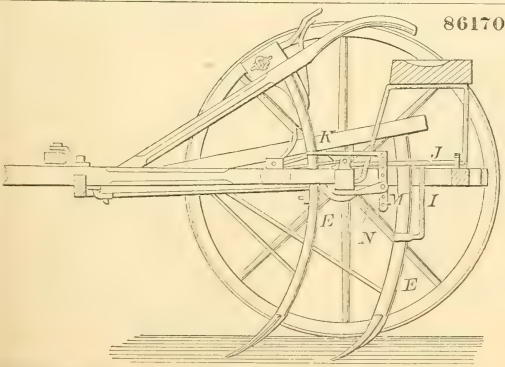


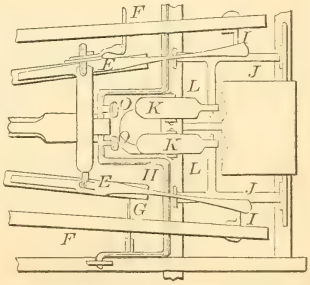




86169—D. Manuel—*Spring Bed Bottom*

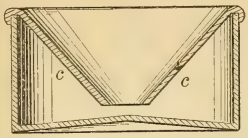



86170—T. J. Martin—*Cultivator.*



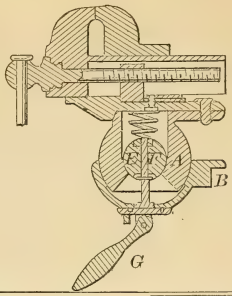



**86171**—T. J. Mayall—

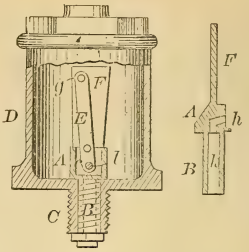



*Rubber Spittoon.*

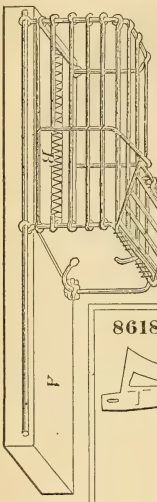
**86173**—E. Maynard—*Ball and Socket Joint.*



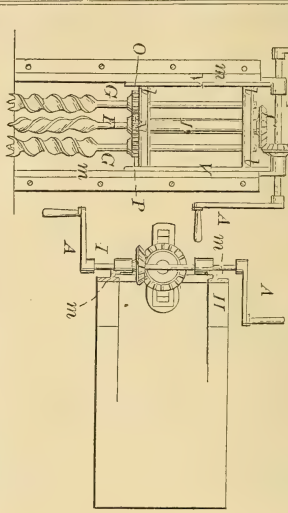

**86174**—McCullon & Woodcock—*Lubricator.*



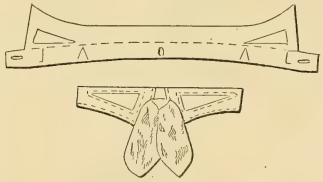

**86175**—Merritt & Gibbs—*Animal Trap.*



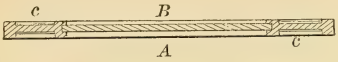

**86176**—A. O. Neal—*Boring and Mortising Machine.*



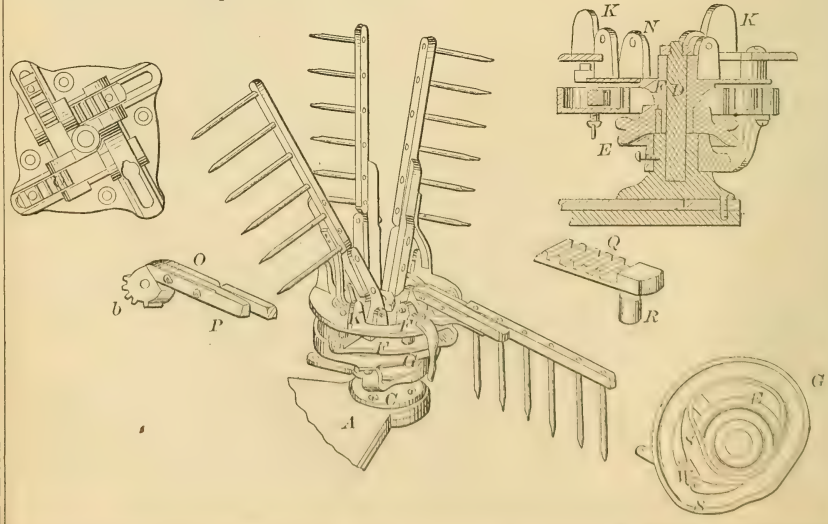

**86180**—C. W. Saladee—*Collar.*



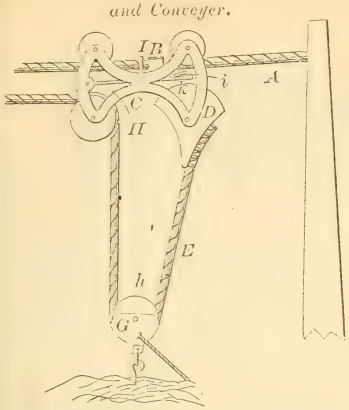
**86177**—D. W. Niles—*Writing Slate.*



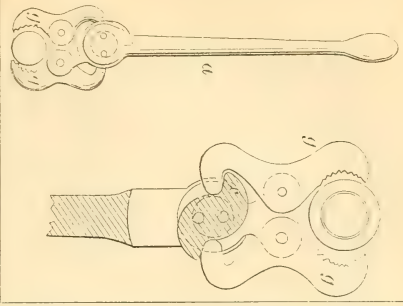

**86178**—H. F. Phillips—*Harvester Rake.*



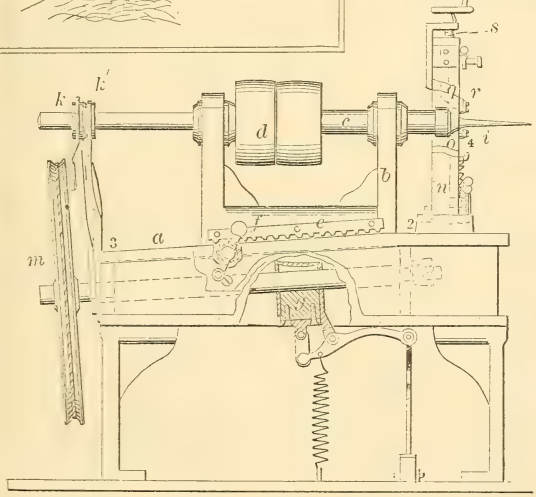
**86179**—T. I. Powell—*Hay Elevator and Conveyer.*

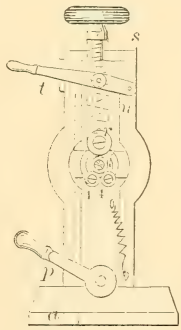



**86181**—P. A. Samuel—*Wrench.*

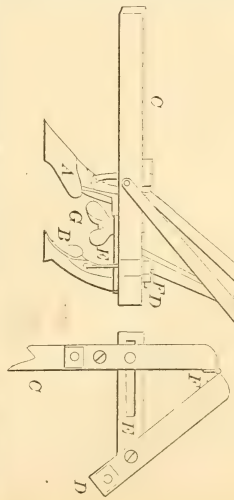



**86182**—F. I. Seymour—*For Spinning Tapering Tubes of Sheet Metal.*

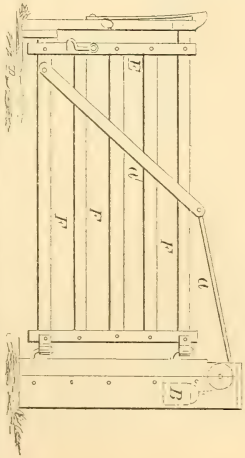


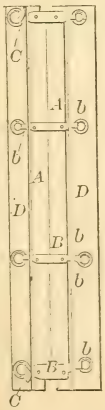

**86185**—J. S. Smith—*Cultivator for Dirting Cotton.*



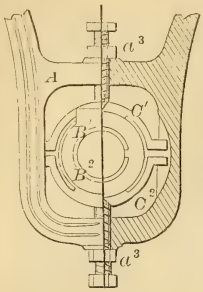

**86184**—G. Smith—*Farm Gate.*



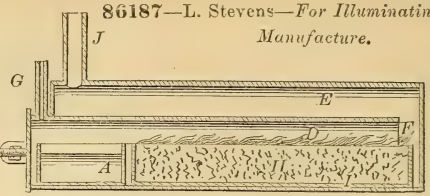

**83183**—H. N. Sherman—*Corset Fastening.*



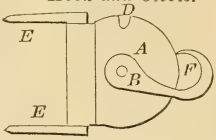
**86186**—H. F. Snyder—*Hanger for Shafting.*



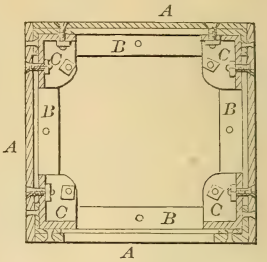

**86187**—L. Stevens—*For Illuminating Gas Manufacture.*



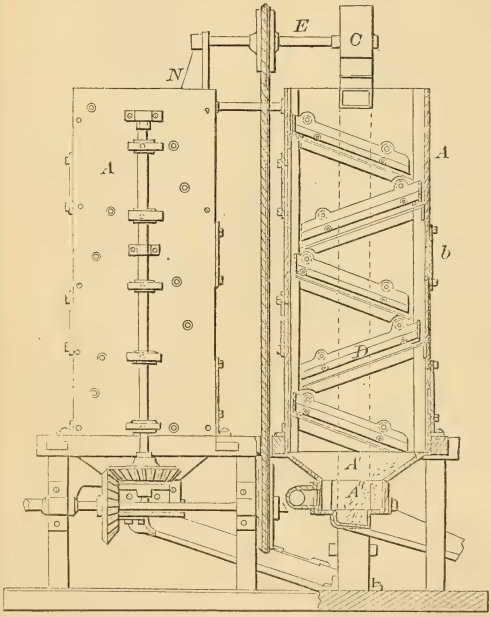

**86188**—A. Strever—*Hames Hook and Clevis.*



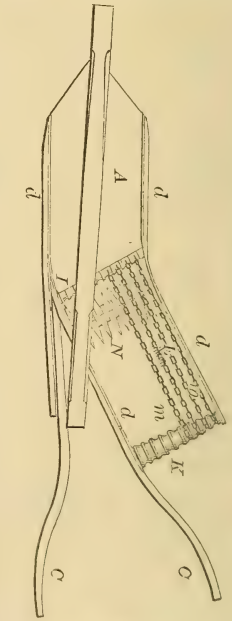

**86189**—T. J. Sullivan—*Safe.*



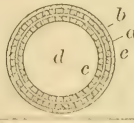

**86192**—H. Walker—*Grain Dryer.*




**86190**—Terlune & Romaine—*Potato Plow.*

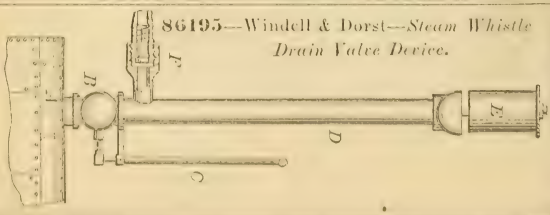



**86193**—J. W. Weston—*Float for Life Preservers.*

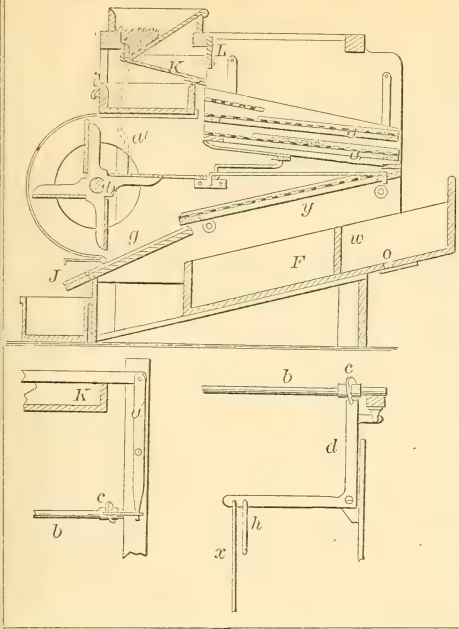



**86194**—R. M. Thompson—*Sash Holder.*

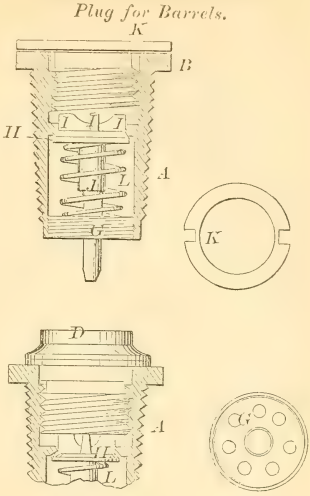
**86195**—Windell & Dorst—*Steam Whistle Drain Valve Device.*



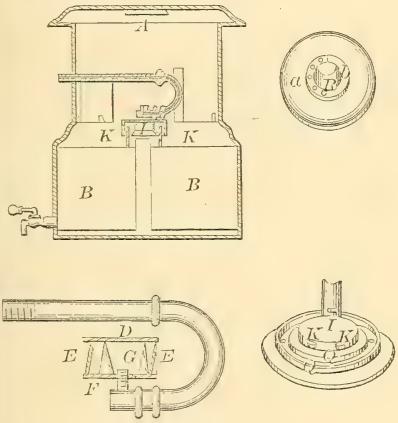
**86194**—J. E. Wheat—*Grain Cleaner.*



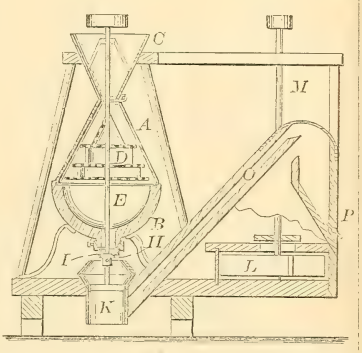

**86196**—Windell & Dorst—*Plug for Barrels.*



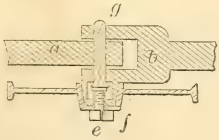

**86198**—C. M. Young—*Vapor Heater.*



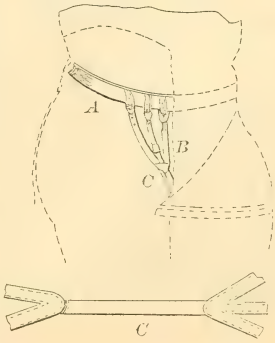

**86199**—J. W. Ardinger—*Grain Feeding and Scouring Apparatus.*



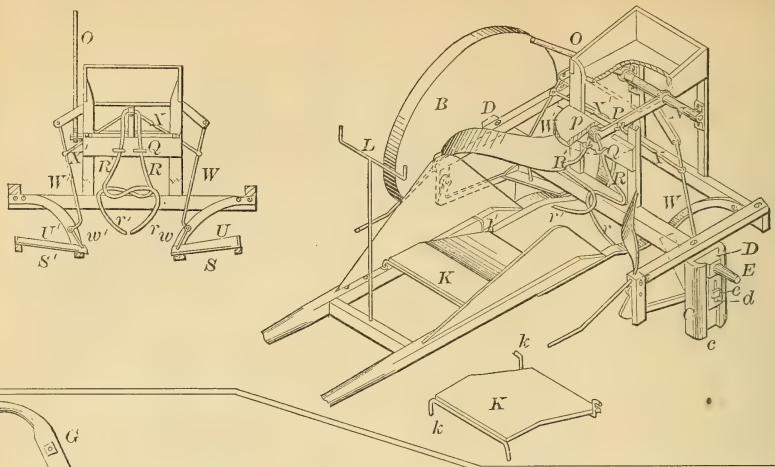

**86197**—A. & G. F. Wright—*Endless Chain for Horse Power.*



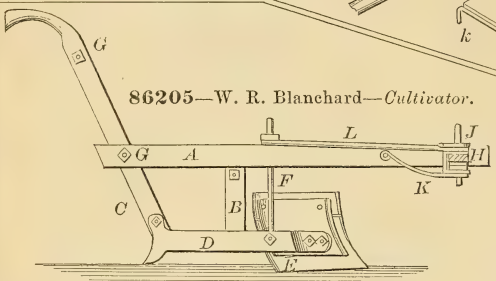

**86204**—J. R. Blake—*Truss*

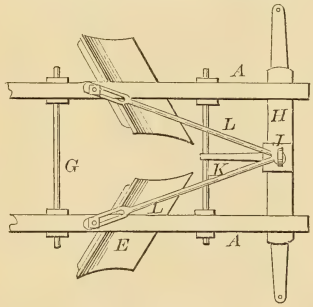


**86203**—M. & W. P. Bales—*Corn Harvester.*

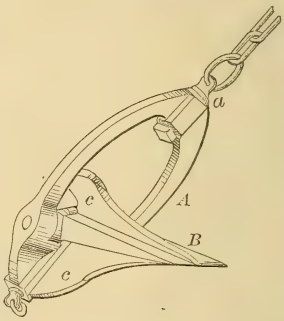



**86205**—W. R. Blanchard—*Cultivator.*

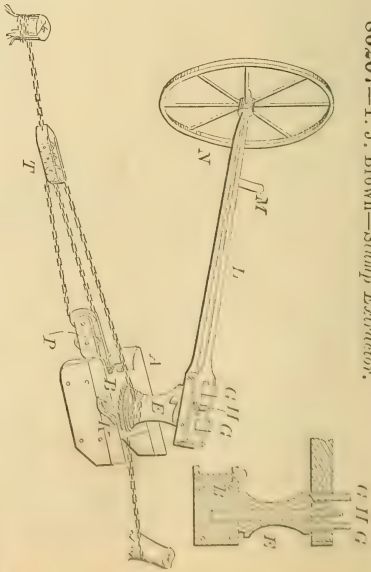


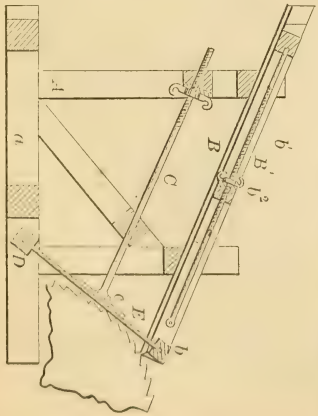

**86206**—C. F. Brown—*Anchor.*



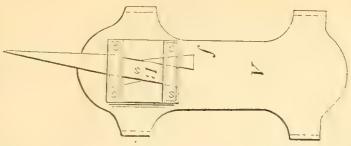

**86207**—T. J. Brown—*Stump Extractor.*



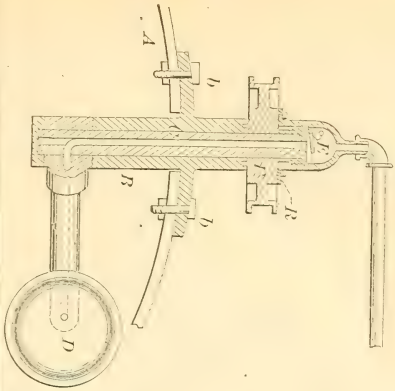

**86208**—J. R. Bullis—*Jointer for Circular Saws.*



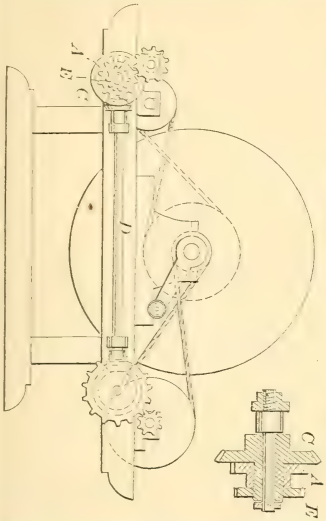
**86209**—T. & J. H. Burdick—*Mortising Tool.*



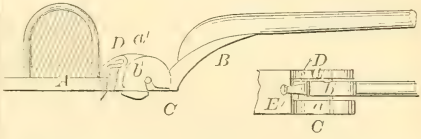
**86213**—J. F. Collins—*Pump.*



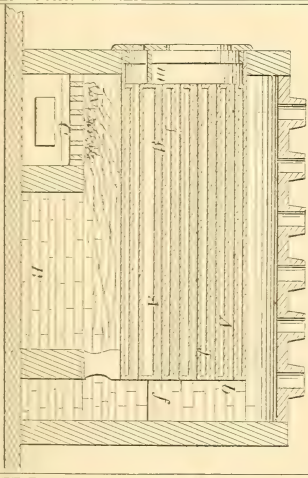
**86211**—Cleveland & Bassett—*Carding Engine.*



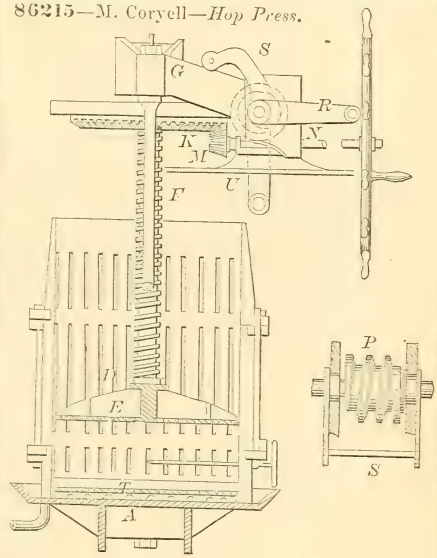
**86212**—J. L. Cole—*Coupling.*



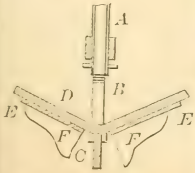
**86210**—J. H. & J. B. Clark—*Steam Heater.*



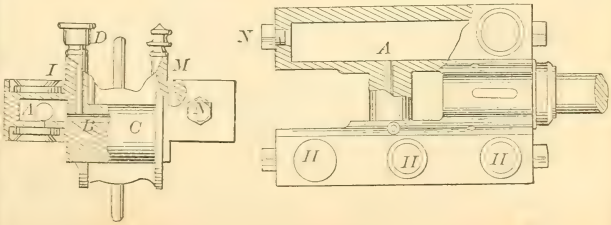
**86215**—M. Coryell—*Hop Press.*



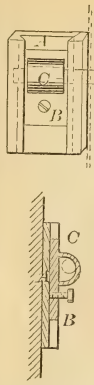
**86216**—
J. C. & T. Couldrey—
*Pump Valve.*



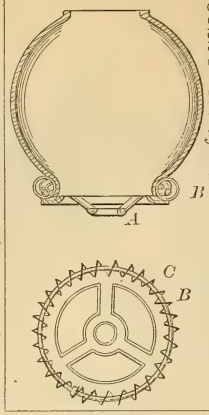
**86214**—I. H. Congdon—*Cross Head for Steam Engines.*



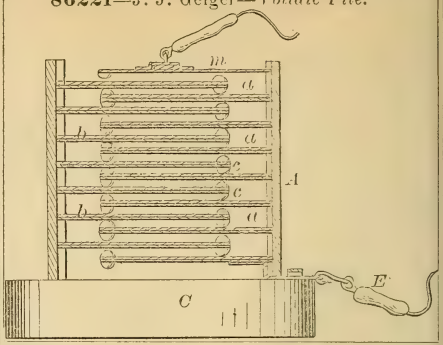
**86217**—G. W. Davis—*Keeper for Door Bolts.*



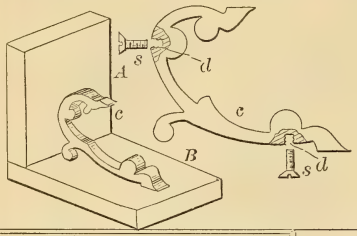

**86224**—T. Hay—*Globe Holder.*



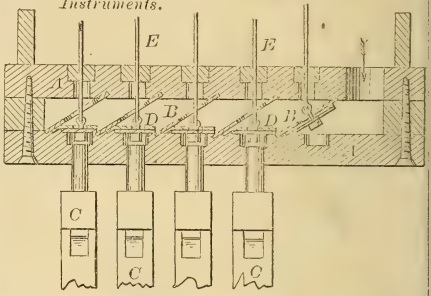

**86221**—J. J. Geiger—*Voltaic Pile.*




**86222**—P. E. & J. P. Gruger—*Wash Stand.*

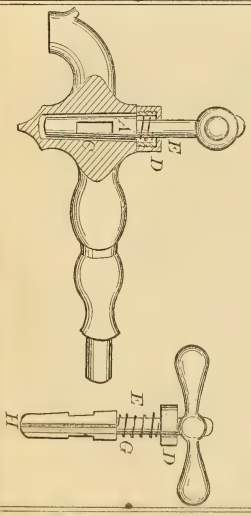



**86219**—C. Fogelberg—*Melody for Keyboard Instruments.*

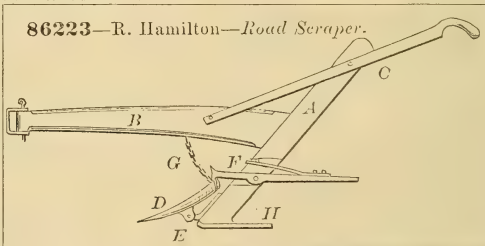



**86220**—P. Frost—*Malleable Cast Iron Bolt.*

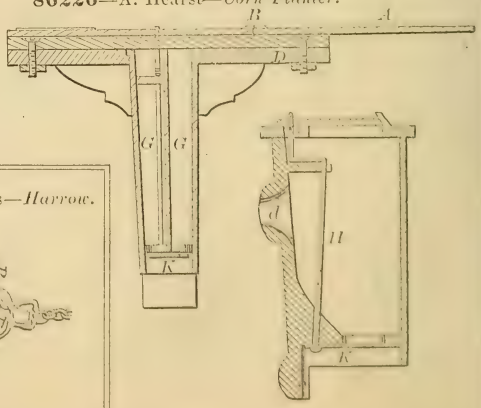
**86225**—J. Hayden, Jr.—*Faucet.*



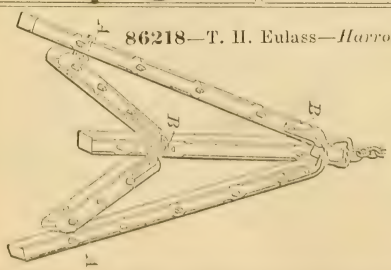

**86223**—R. Hamilton—*Road Scraper.*

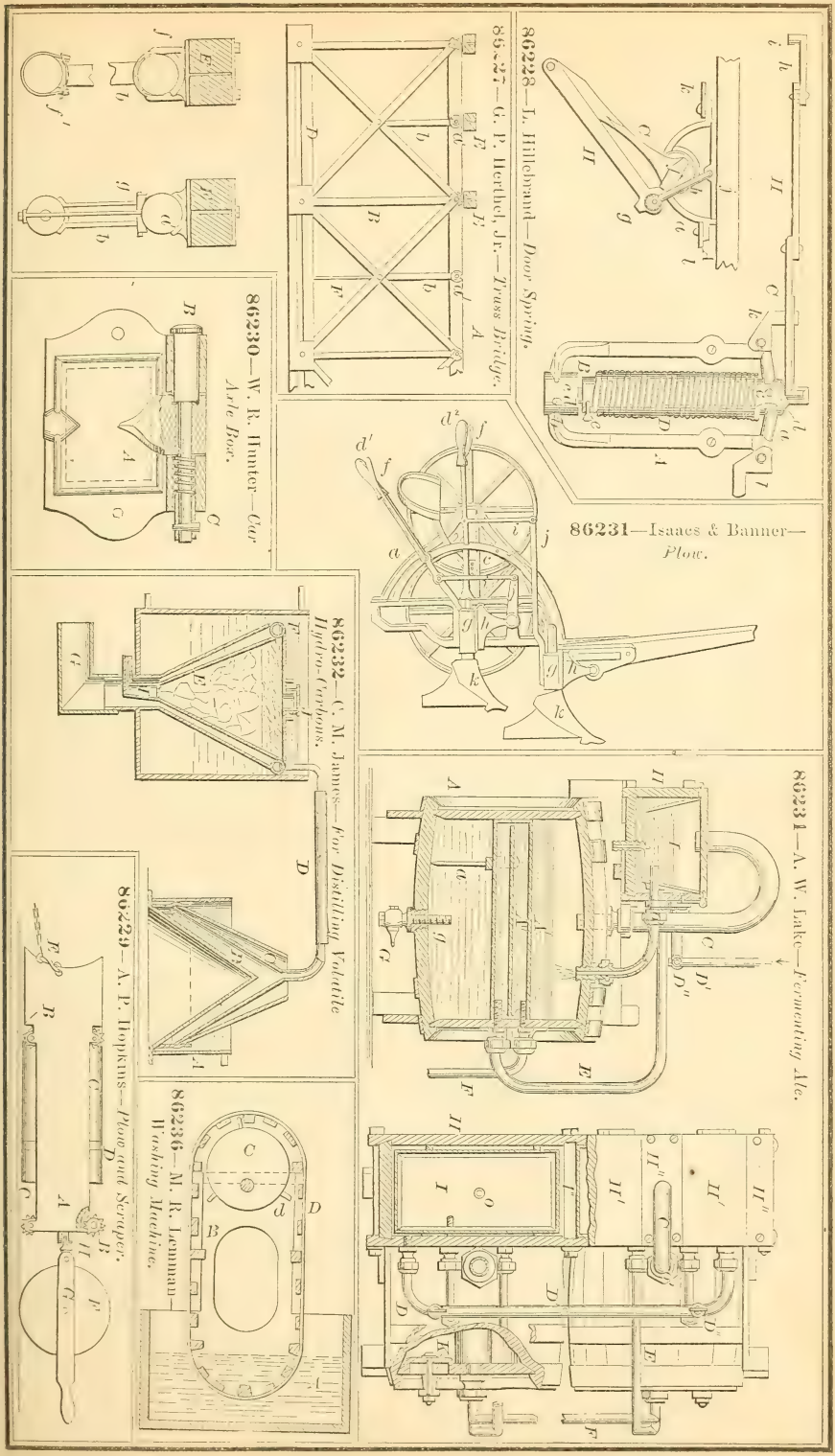



**86226**—A. Hearst—*Corn Planter.*

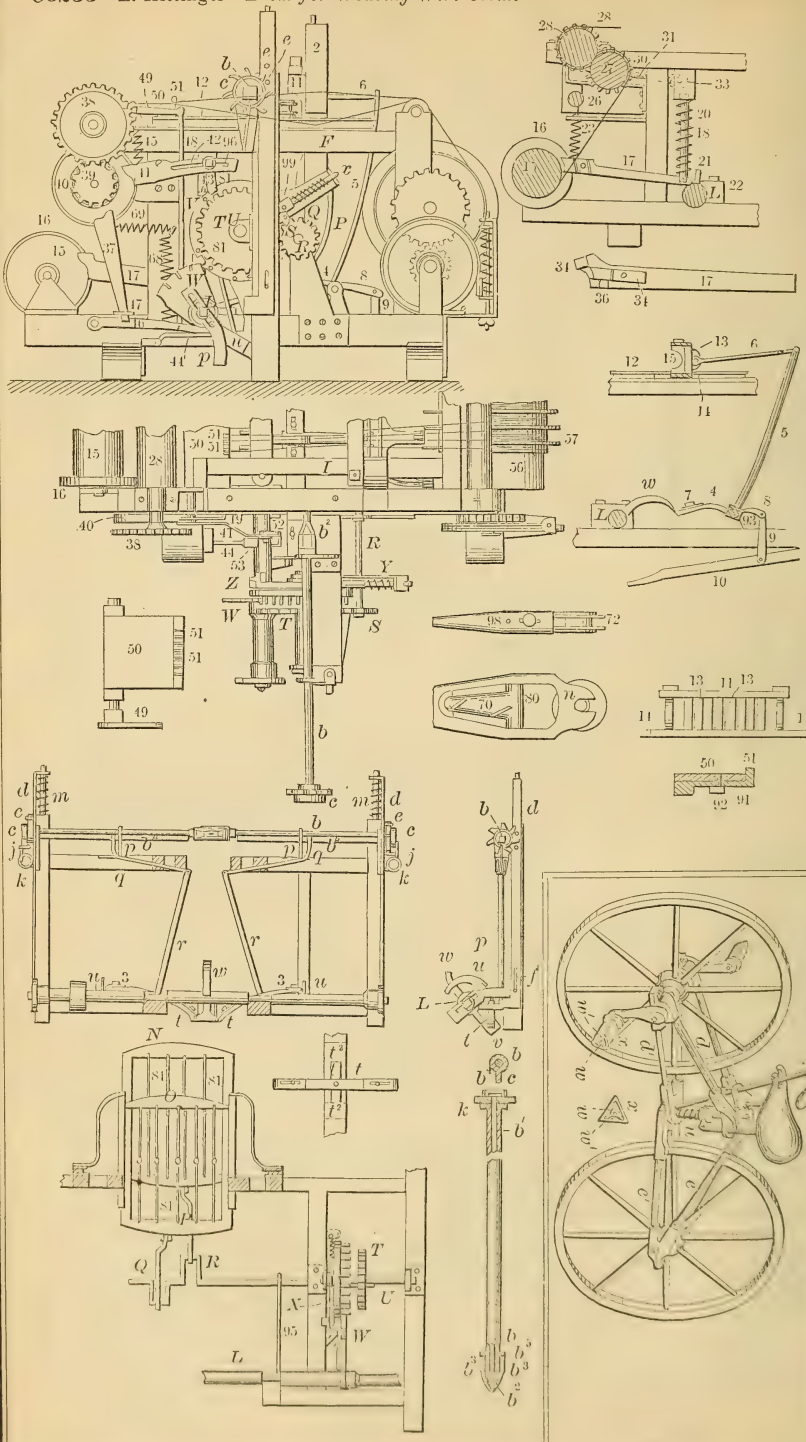



**86218**—T. H. Eulass—*Harrow.*



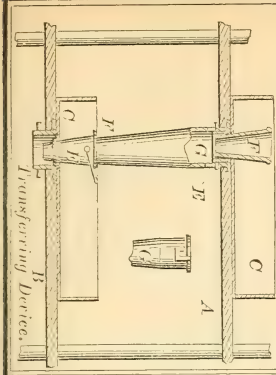

86228—L. Hillebrand—Door Spring.
86227—G. P. Herthel, Jr.—Truss Bridge.
86230—W. R. Hunter—Car Axle Box.
86231—Isaacs & Banner—Plow.
86232—C. M. James—For Distilling Volatile Hydro-Carbons.
86234—A. W. Lake—Fermenting Ale.
86229—A. P. Hopkins—Plow and Scraper.
86236—M. R. Lemman—Washing Machine.

**86233**—L. Kittinger—*Loom for Weaving Wire Cloth.*

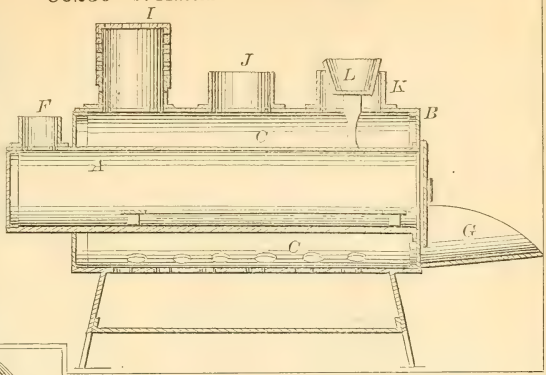


**86235**—W. H. Laubach—*Velocipede.*

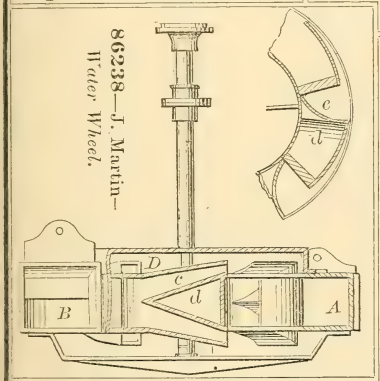
**86237**—J. A. Livingston—*Transferring Device.*



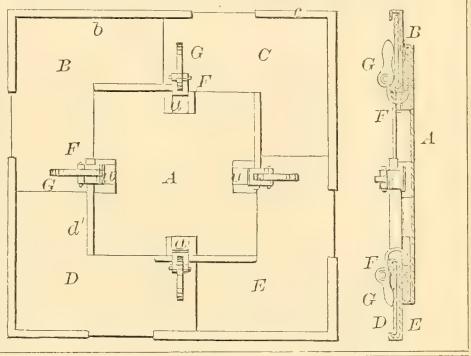
**86239**—J. Martin—*Hot Air Furnace.*



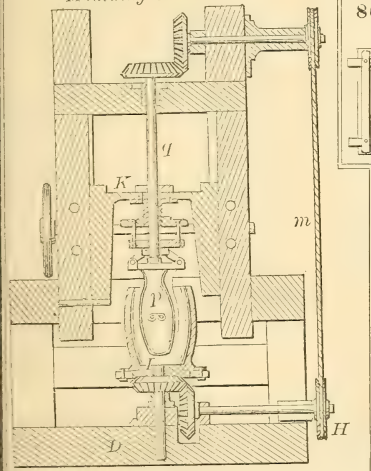
**86238**—J. Martin—*Water Wheel.*



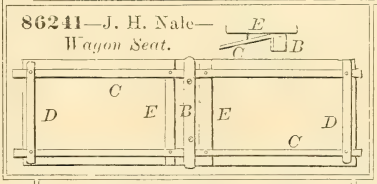
**86240**—G. W. & W. H. Metcalf—*Fire Board.*



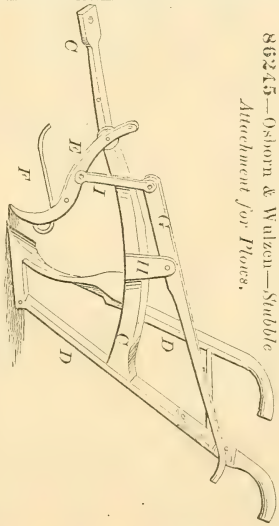
**86243**—A. Newkumet—*Moulding Crucibles.*



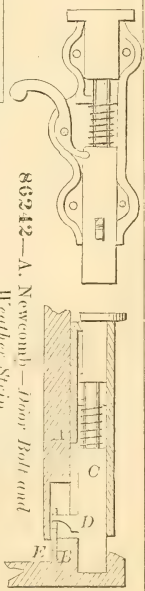
**86241**—J. H. Nale—*Wagon Seat.*



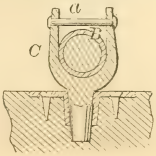
**86245**—Osborn & Walzen—*Stubble Attachment for Plows.*



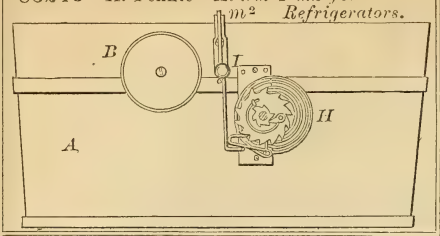
**86242**—A. Newcomb—*Door Bolt and Weather Strip.*



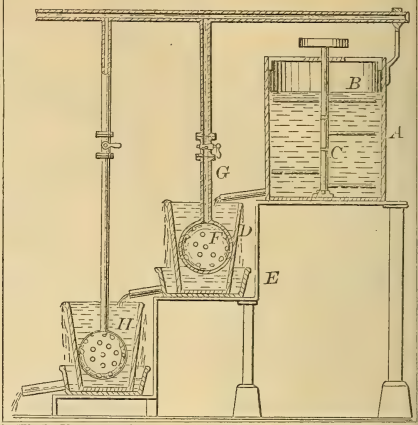
**86244**—J. W. Norcross—*Row Lock.*



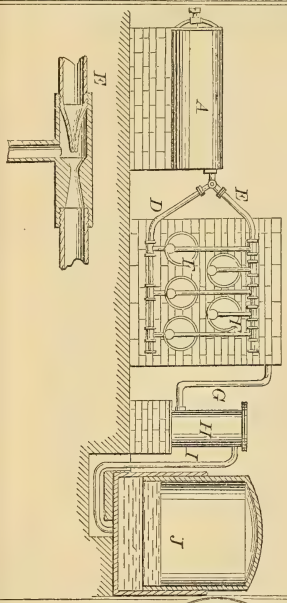
86246—H. Pennie—*Alarm Tank for Refrigerators.*



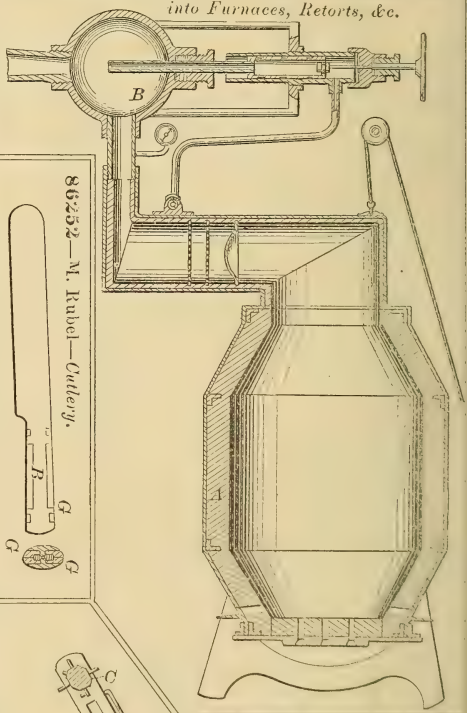

86249—J. H Rae—*Ore Washer and Separator.*




86248—O. M. Phillips—*Manufacture of Oxygen Gas.*



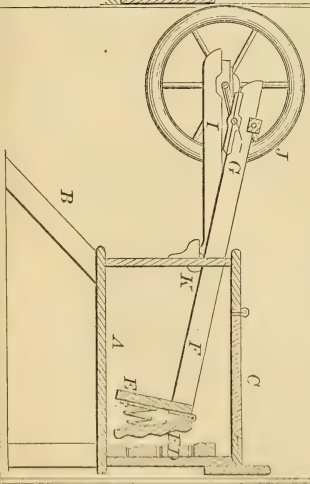

86247—O. M. Phillips—*Introducing Oxygen Gas into Furnaces, Retorts, &c.*



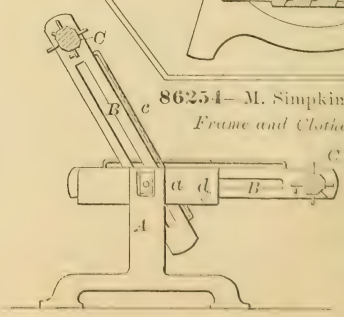

86252—M. Rubel—*Cutlery.*




86250—J. Ringen—*Washing Machine.*

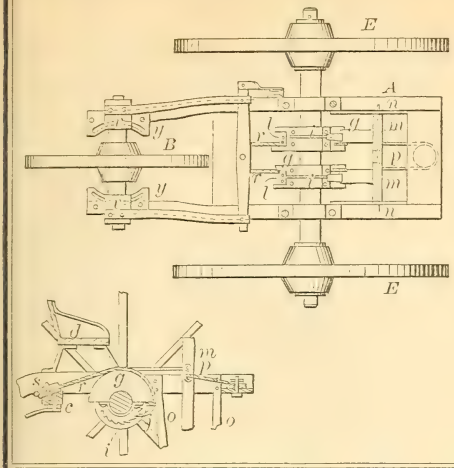



86254—M. Simpkins—*Quilting Frame and Clothes Dryer.*

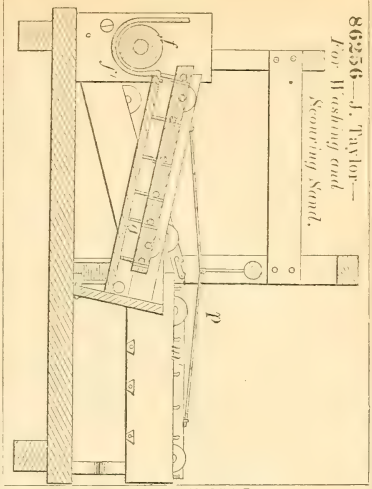



86253—C. Ruckert—*Carpet Stretcher.*

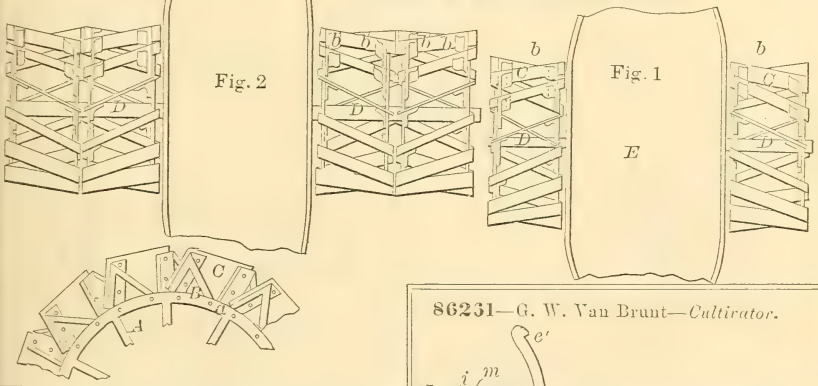
**86251**—D. T. Robinson—*Velocipede.*



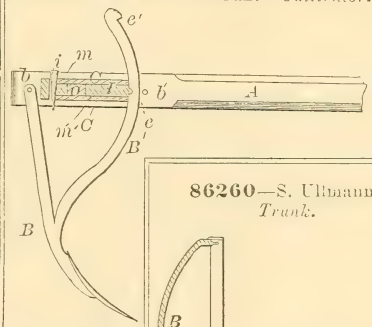

**86256**—J. Taylor—*For Washing and Scouring Sand.*



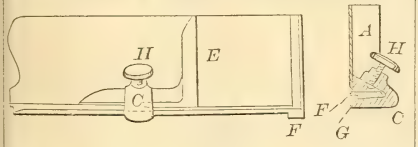
**86258**—N. Thorn—*Paddle Wheel.*



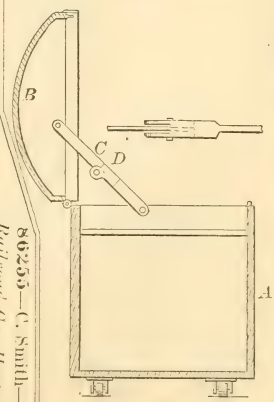

**86231**—G. W. Van Brunt—*Cultivator.*



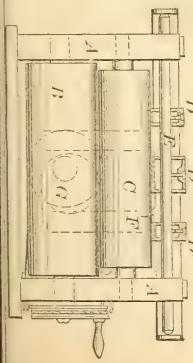

**86257**—R. W. Thing—*Composing Stick.*



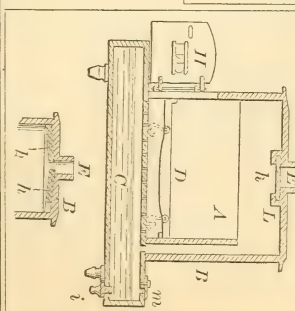

**86260**—S. Ullmann—*Trunk.*



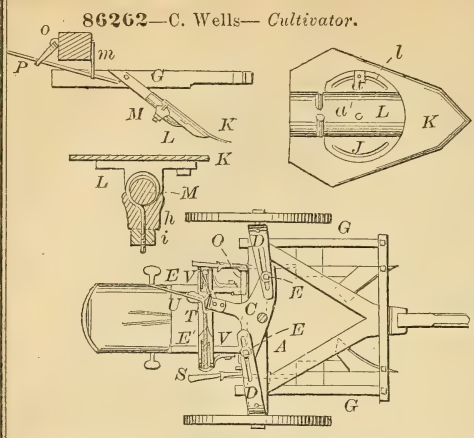

**86263**—C. Wells—*Printing Press.*



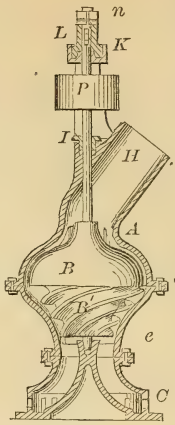

**86255**—C. Smith—*Railroad Car Heater.*



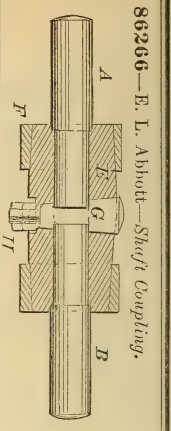
**86262**—C. Wells—*Cultivator.*



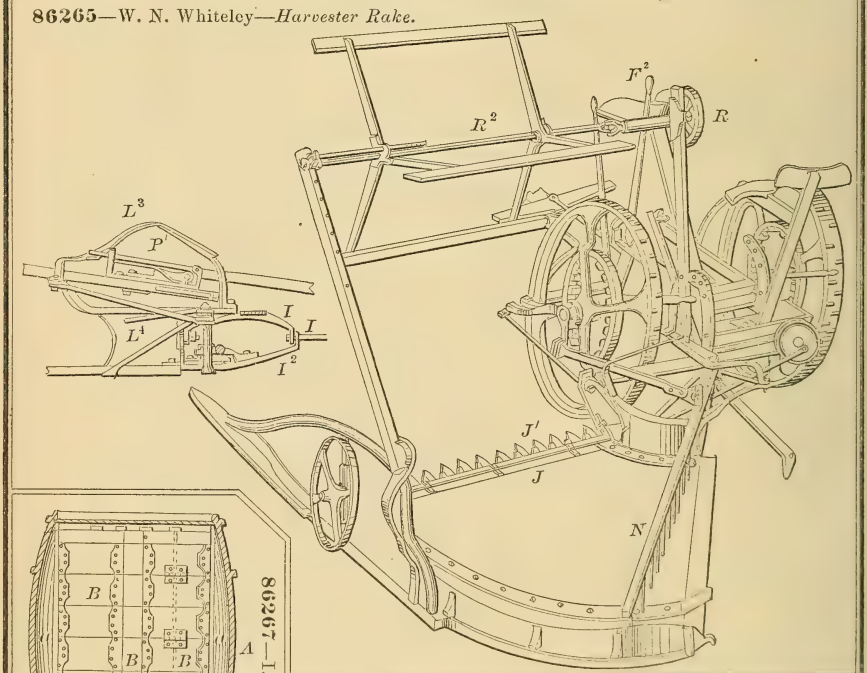

**86264**—White & Henson—*Pump.*



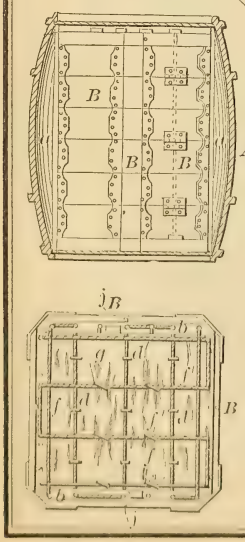

**86266**—E. L. Abbott—*Shaft Coupling.*



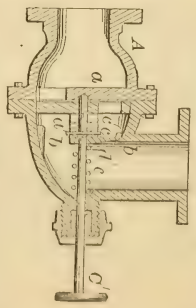

**86265**—W. N. Whiteley—*Harvester Rake.*



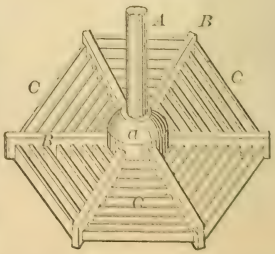

**86267**—I. R. Amsden—*Egg and Fruit Carrier.*



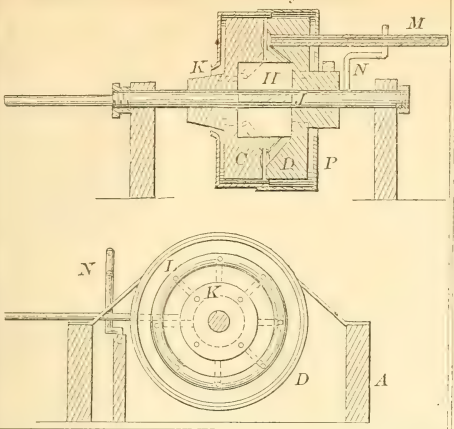

**86268**—G. Baker—*Valve for Steam and other Engineery.*



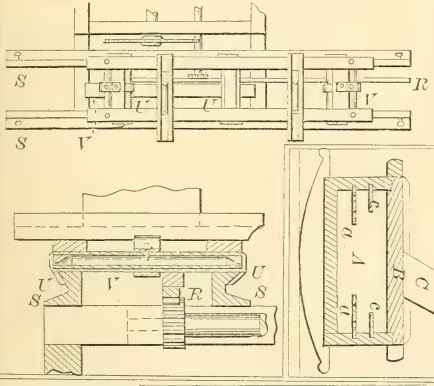

**86269**—C. J. Baldwin—*Churn Dasher.*



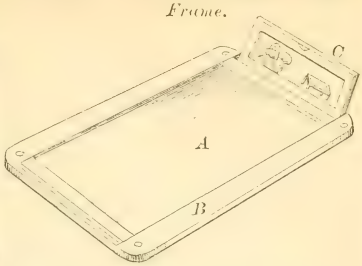
**86270**—D. H. Ball—*Heater for Mills.*



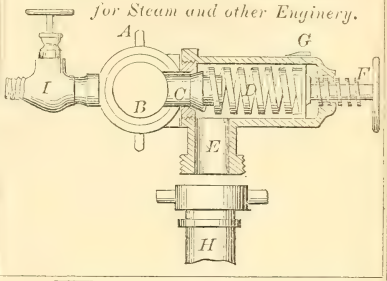

**86271**—D. H. Ball—*Circular Saw Mill.*



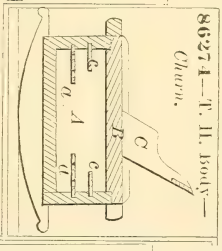

**86272**—W. N. Bartholomew—*Slate Frame.*



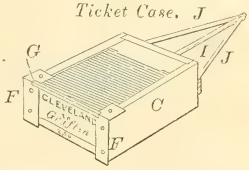

**86273**—C. E. Blake—*Pump Device for Steam and other Enginery.*



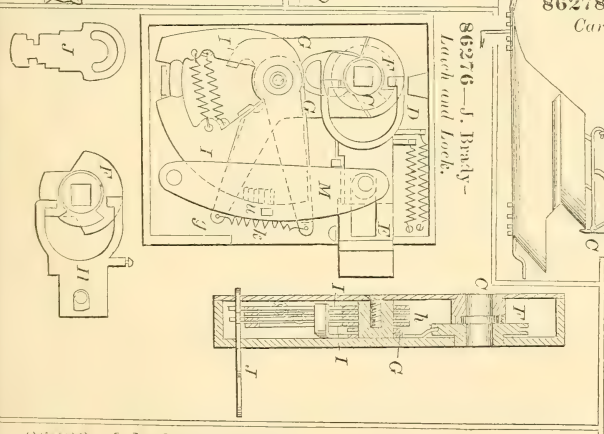

**86274**—T. H. Body—*Churn.*



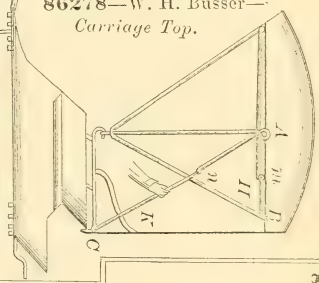

**86277**—F. Brewster—*Railroad Ticket Case.*



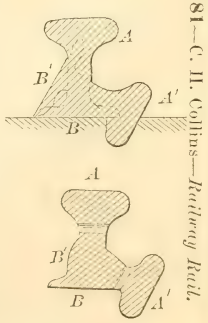

**86276**—J. Brady—*Latch and Lock.*



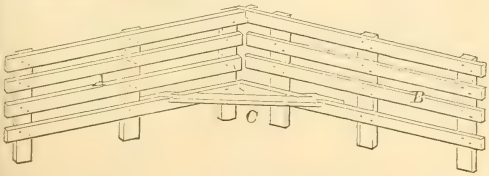

**86278**—W. H. Busser—*Carriage Top.*



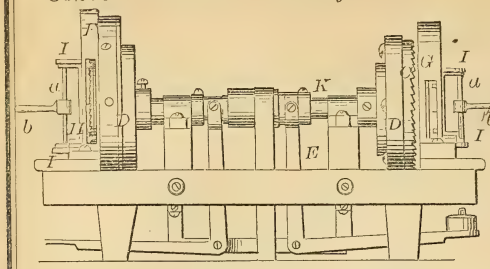

**86281**—C. H. Collins—*Railway Rail.*



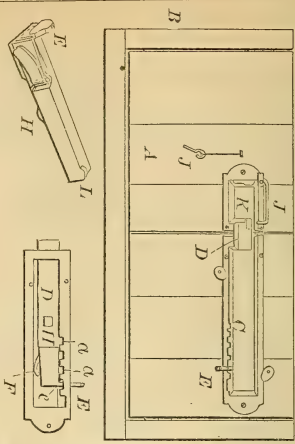

**86280**—I. D. Carter—*Fence.*

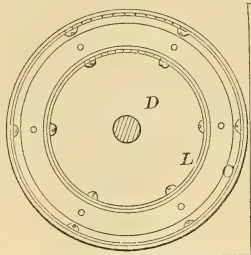


**86279**—W. Carr—*Felloe Sawing Machine.*

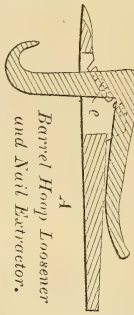



**86282**—J. W. Custer—*Shutter Bolt.*

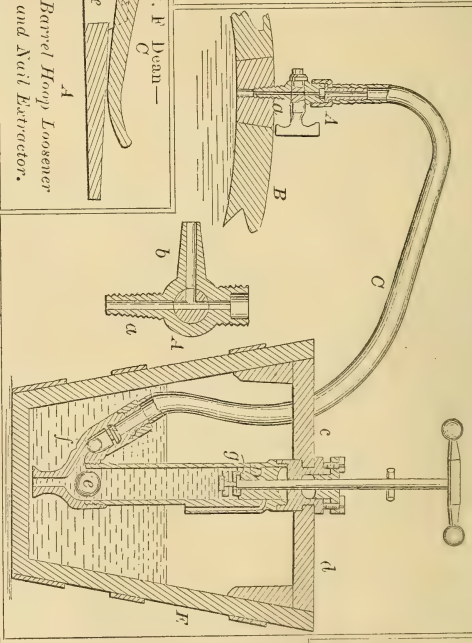


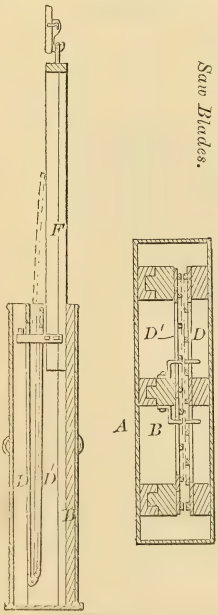

**86285**—C. F. Dean—*Barrel Hoop Loosener and Nail Extractor.*



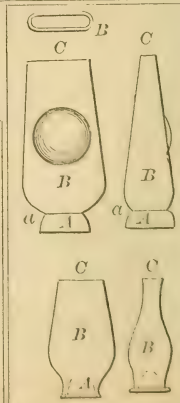

**86287**—A. M. Dix—*Pumping Apparatus.*



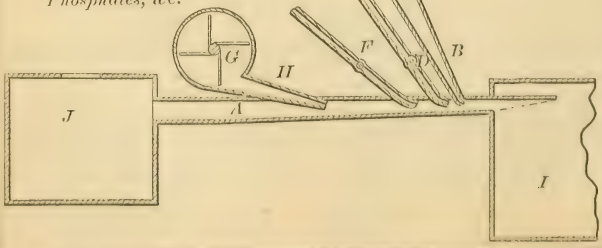

**86286**—H. Disston—*Hardening and Straightening Circular Saw Blades.*



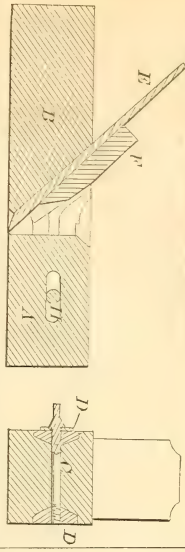

**86291**—R. N. Eagles—*Lamp Chimney.*



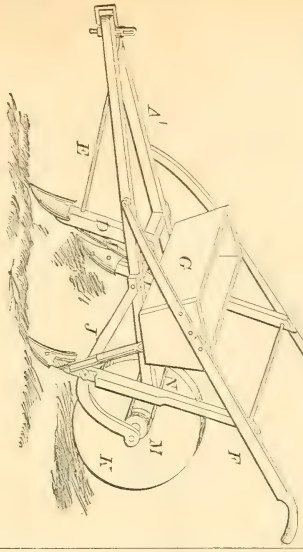

**86289**—A. Duvall—*For Mixing Liquids with Powder for Phosphates, &c.*

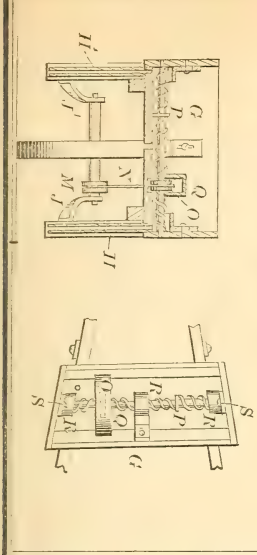


**86295**—P. S. Foster—*Beach Plane.*

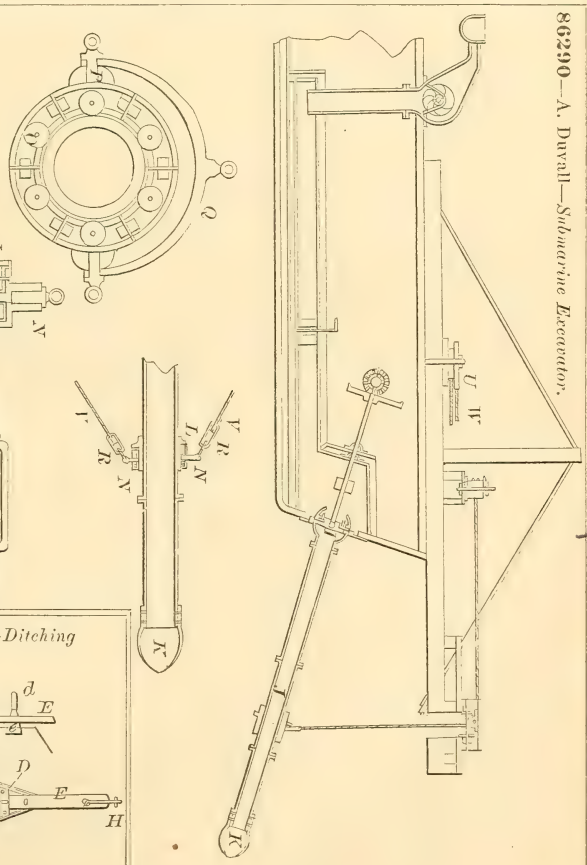


**86288**—W. A. Donnell—*Seed Drill and Corn Coverer.*

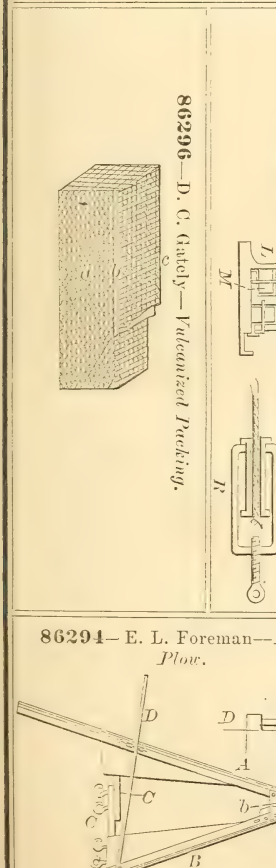




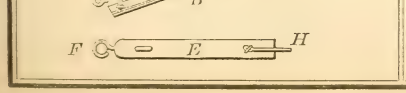
**86290**—A. Duvall—*Submarine Excavator.*



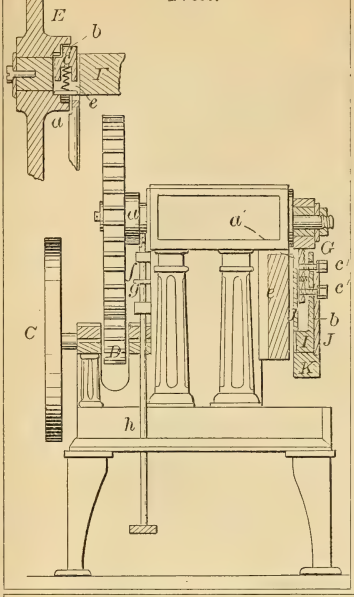
**86296**—D. C. Gately—*Vulcanized Packing.*



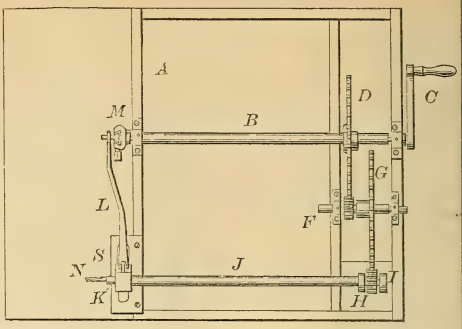
**86294**—E. L. Foreman—*Ditching Plow.*



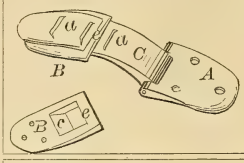
**86292**—R. H. Fisher—*Power Press.*



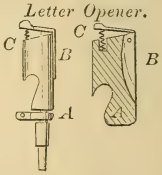

**86293**—H. K. Forbis—*Mortising Machine.*



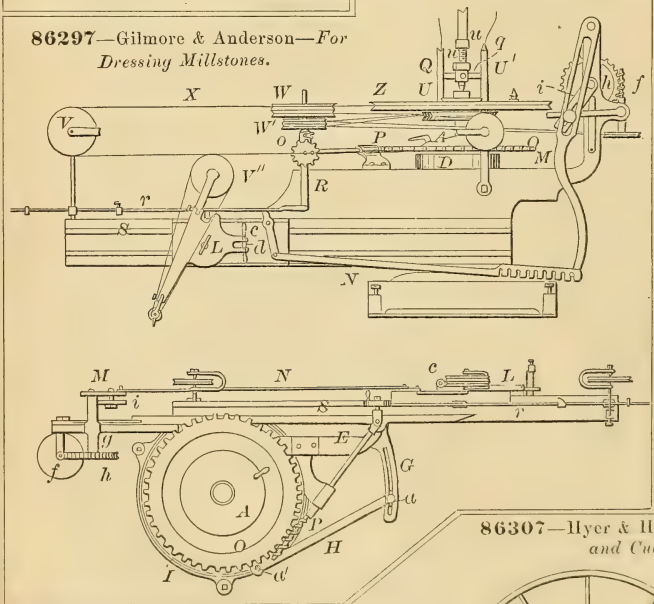

**86298**—E. B. Gould—*Horse Collar Fastening.*



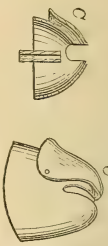

**86300**—H. Gross—*Letter Opener.*



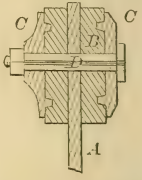

**86297**—Gilmore & Anderson—*For Dressing Millstones.*



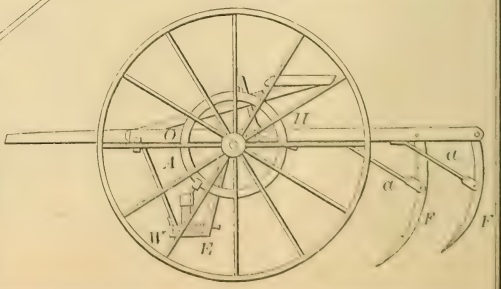

**86301**—E. K. Haynes—*Lamp Burner.*



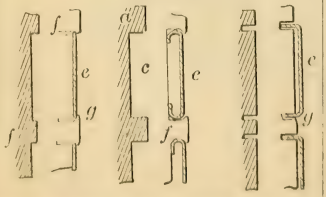

**86306**—W. M. Hurlbert—*Cultivator Teeth.*



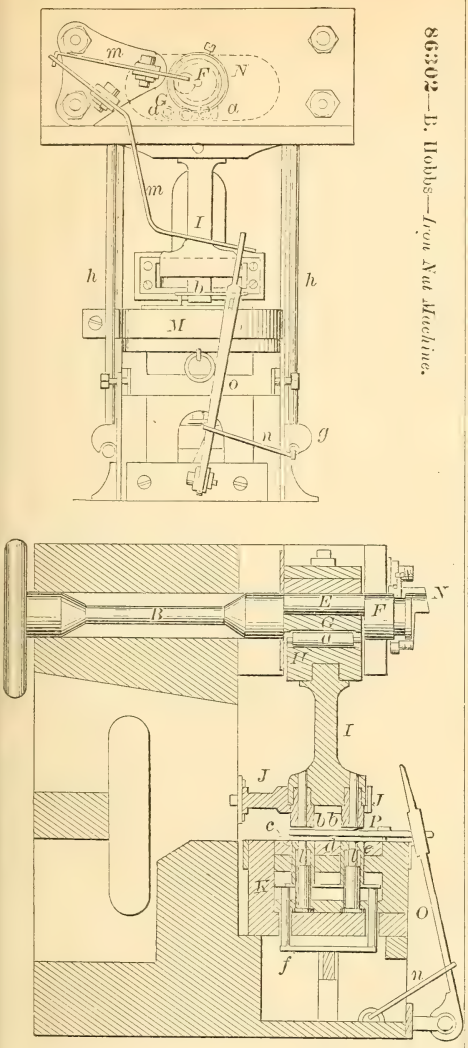

**86307**—Hyer & Hudson—*Seed Sower and Cultivator.*



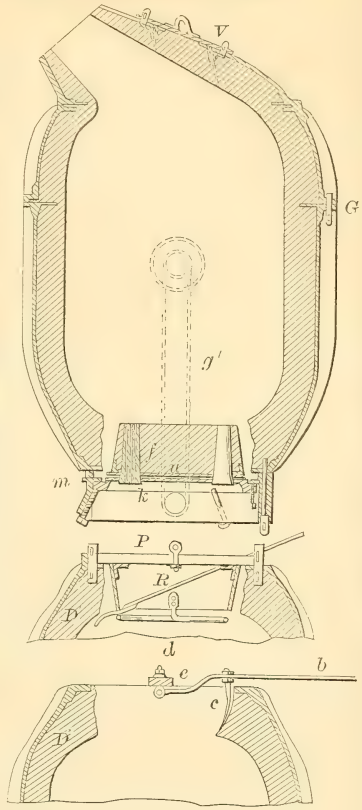

**86305**—I. V. Holmes—*Metallic Lathing.*



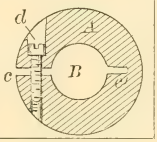
**86302**—E. Hobbs—*Iron Nut Machine.*



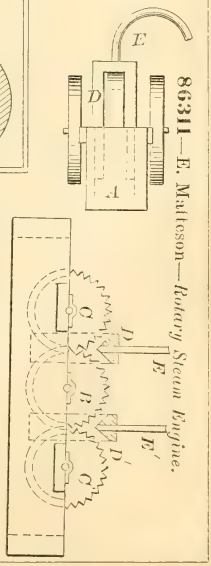

**86304**—Holley & Pearse—*For the Manufacture of Iron and Steel.*



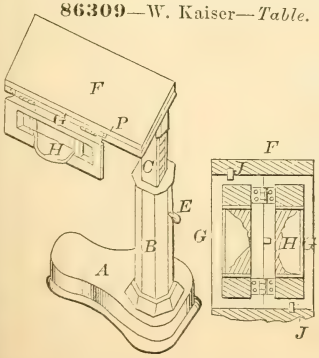

**86308**—R. E. Jones—*Gauge.*



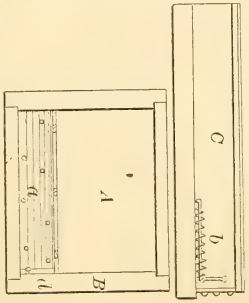

**86311**—E. Matteson—*Rotary Steam Engine.*



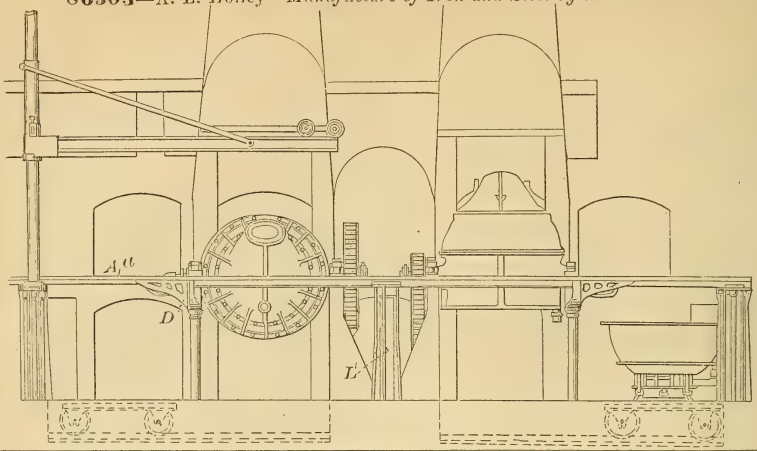

**86309**—W. Kaiser—*Table.*



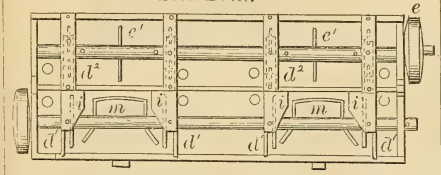

**86310**—J. I. Mabbett—*Weather Strip for Doors.*

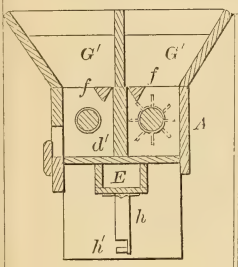


**86303**—A. L. Holley—*Manufacture of Iron and Steel by the Bessemer Process.*

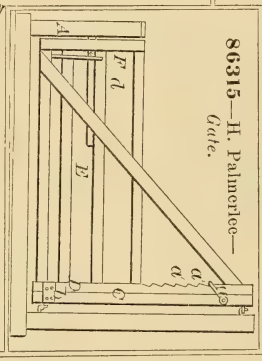


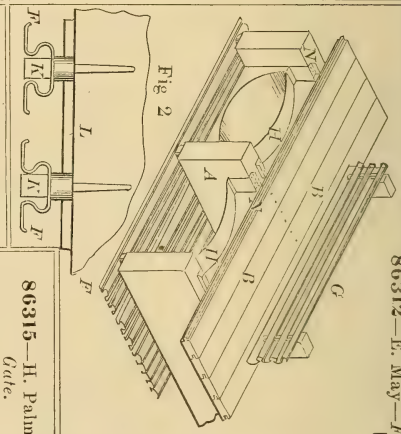

**86313**—T. B. McConaughey—*Fertilizer and Seed Drill.*



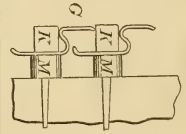



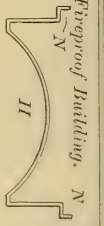

**86315**—H. Palmerlee—*Gate.*



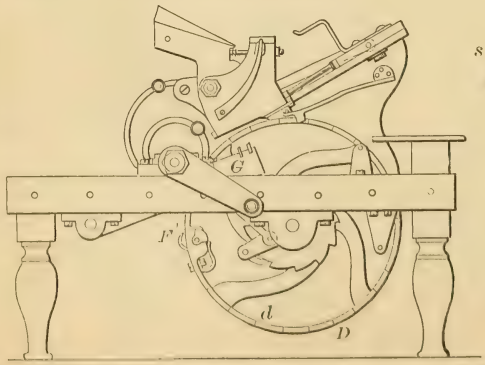



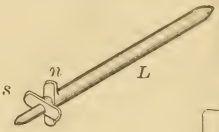

**86312**—E. May—*Fireproof Building.*

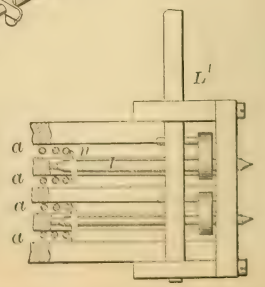


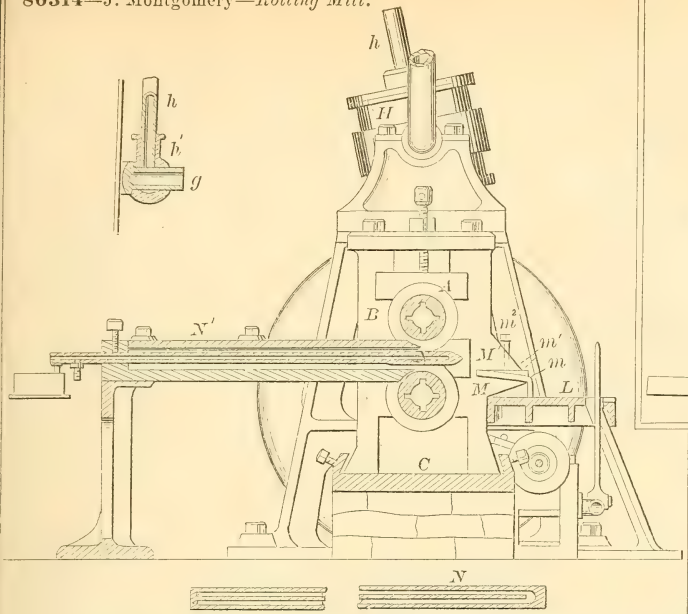

**86317**—T. Piper—*For Sticking Pins.*



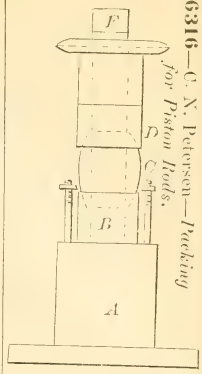



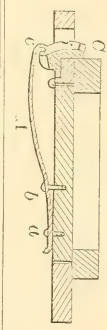
**86314**—J. Montgomery—*Rolling Mill.*



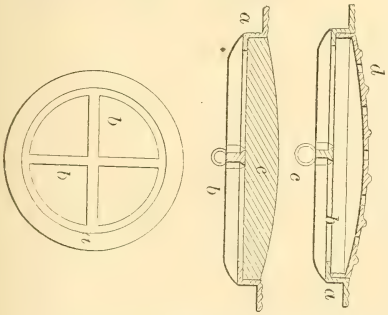

**86316**—C. N. Peterson—*Packing for Piston Rods.*



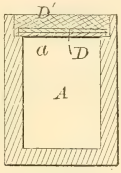

**86318**—I. Powars—*Door Spring.*



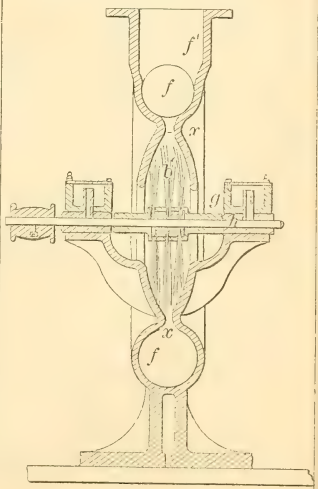

**86323**—J. Ryer—*Vault Cover.*



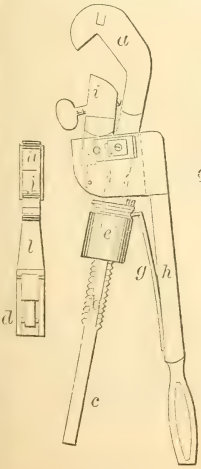

**86319**—J. Reakirt—*Putting up Caustic Alkalies.*



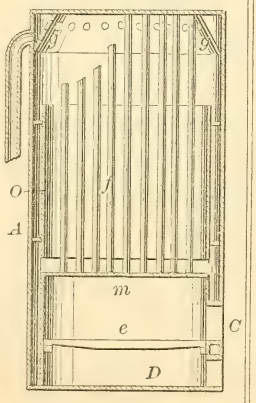

**86320**—Reichenbach & Golay—*Blowing Machine.*

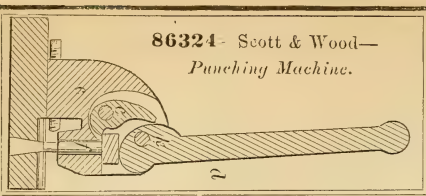



**86322**—P. C. Rowe—*Wrench.*



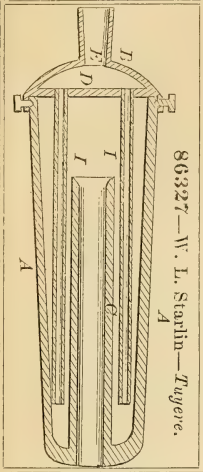

**86321**—G. H. Reynolds—*Steam Generator.*



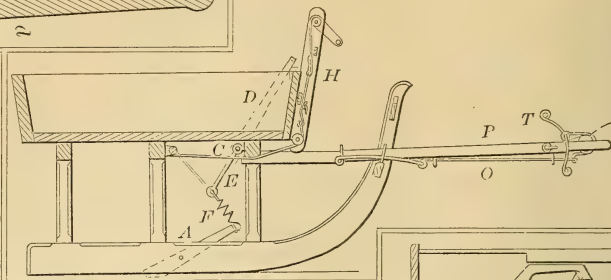


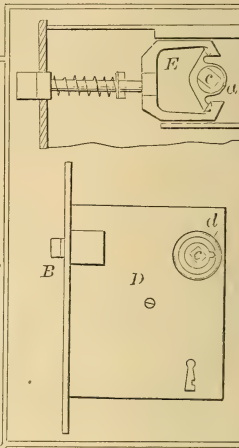
**86324**—Scott & Wood—*Punching Machine.*

**86325**—H. W. & B. C. Smith—*Sled Brake.*

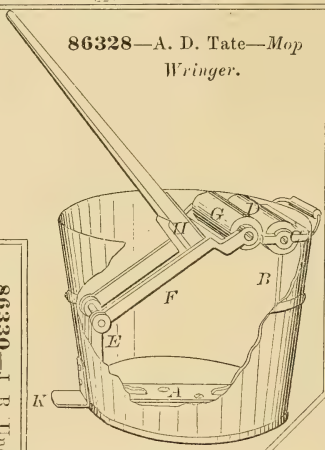


**86327**—W. L. Starlin—*Tuyere.*

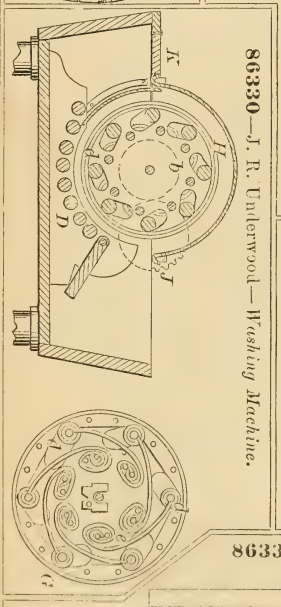




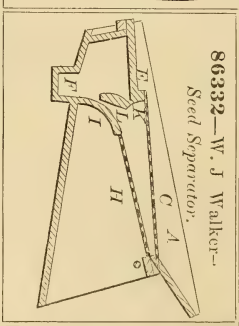
**86326**—W. E. & H. H. Sparks—*Latch.*



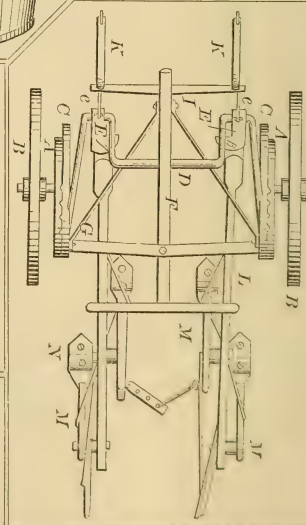
**86328**—A. D. Tate—*Mop Wringer.*



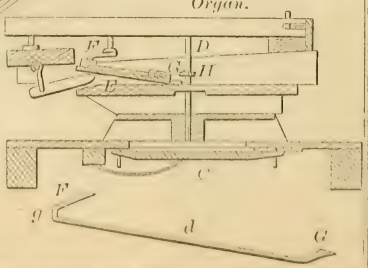
**86330**—J. R. Underwood—*Washing Machine.*



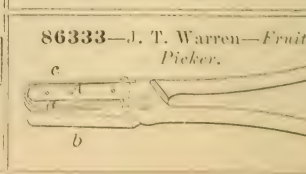
**86332**—W. J Walker—*Seed Separator.*



**86329**—Tobias & Bates—*Cultivator.*

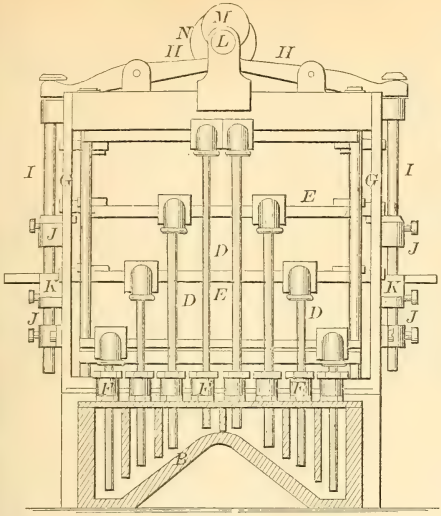


**86335**—A. W. Wilcox—*Reed Organ.*

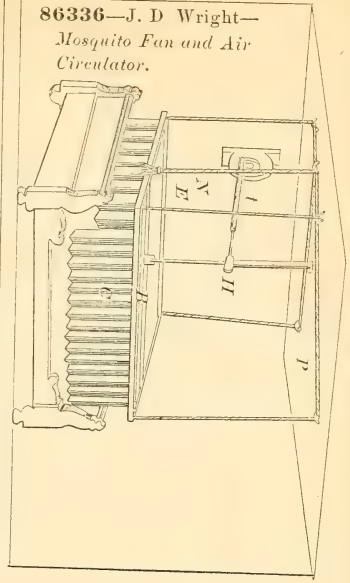


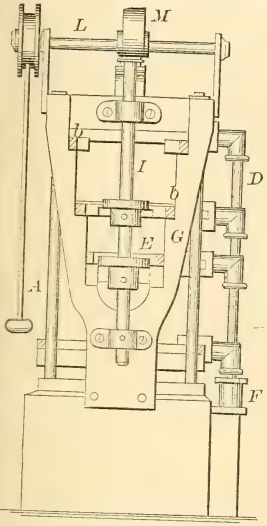
**86333**—J. T. Warren—*Fruit Picker.*

**86334**—Weston & Dennis—*Cloth Press.*

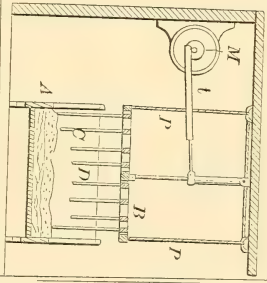



**86336**—J. D Wright—*Mosquito Fan and Air Circulator.*

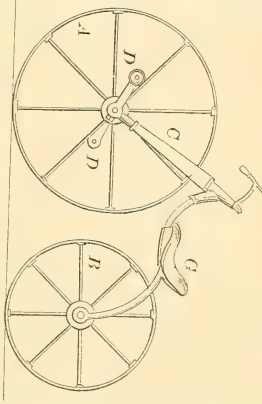


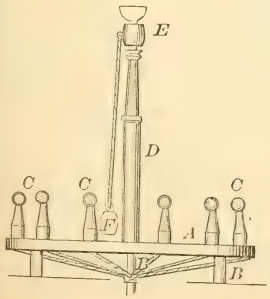

**86338**—C. W. Saladee—*Collar.*



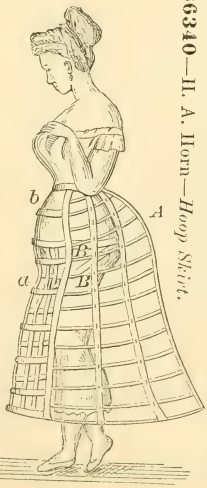

**86339**—Greenwood & Husted—*Velocipede.*



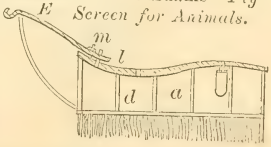

**86337**—D. Zink—*Parlor Ten Pin Toy.*



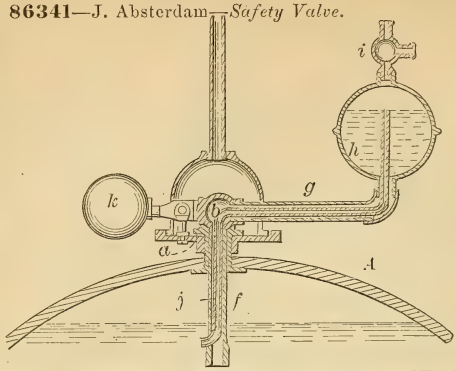

**86340**—H. A. Horn—*Hoop Skirt.*



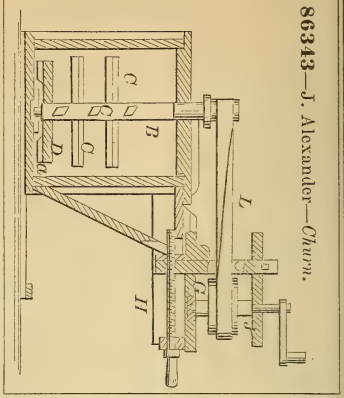

**86342**—B. F. Adams—*Fly Screen for Animals.*



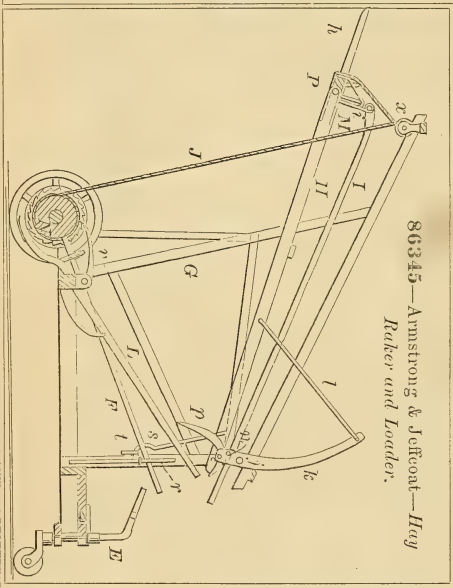
**86341**—J. Absterdam—*Safety Valve.*



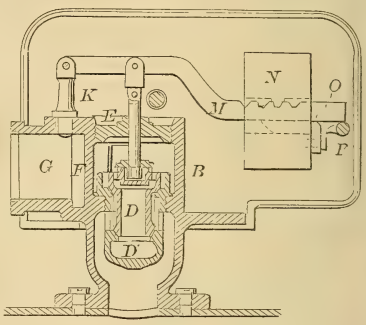

**86343**—J. Alexander—*Churn.*



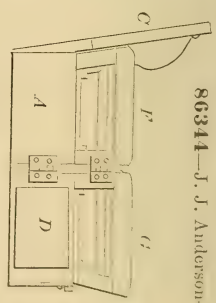

**86345**—Armstrong & Jeffcoat—*Hay Raker and Loader.*

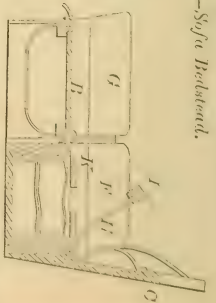



**86346**—J. Ashcroft—*Steam Safety Valve.*

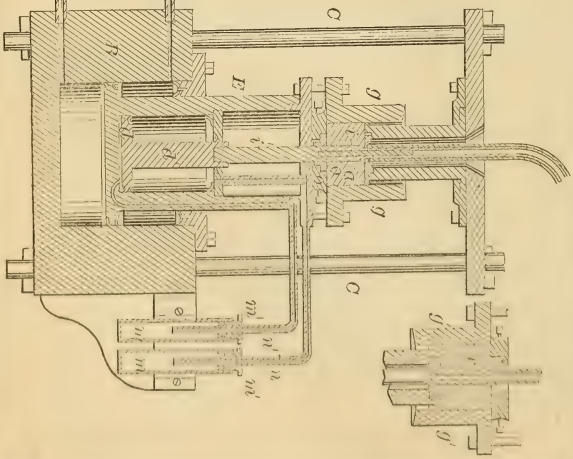



**86344**—J. J. Anderson—*Sofa Bedstead.*

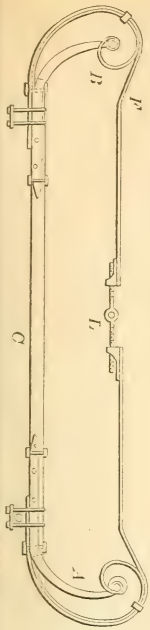


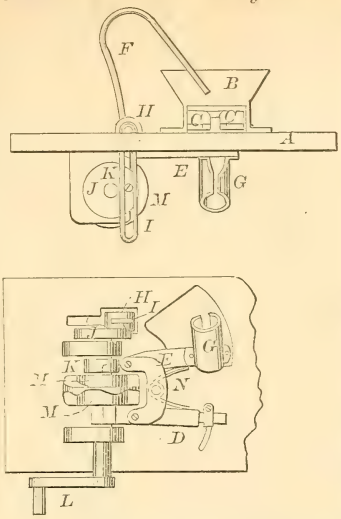

**86347**—H. J. Bailey—*For Tin Lined Lead Pipe.*



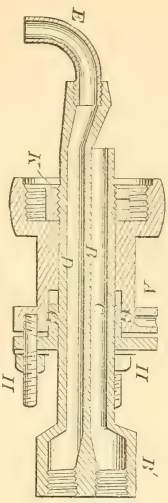
**86348**—J. Balbach—*Carriage Spring.*



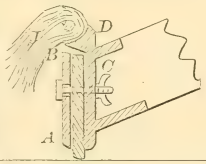

**86349**—W. C. Barr—*Cherry Pitter.*



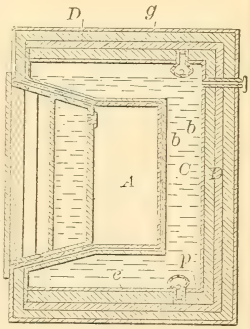

**86350**—G. S. Barton—*Steam Dryer.*



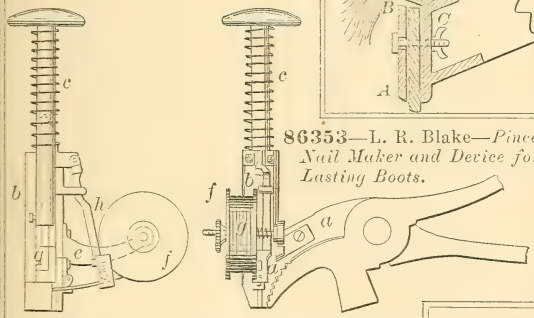

**86351**—E. S. Bennett—*Mop and Scrubber.*



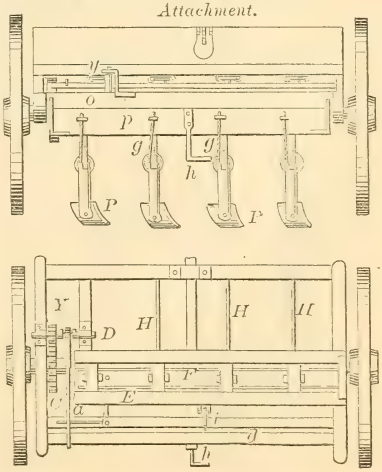

**86356**—H. H. Bryant—*Fireproof Safe.*



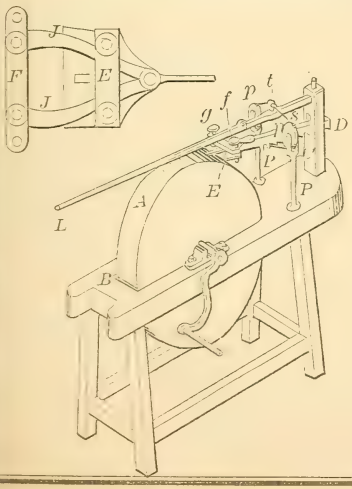

**86353**—L. R. Blake—*Pincers. Nail Maker and Device for Lasting Boots.*



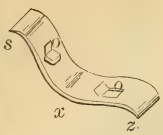

**86354**—S. Bowman—*Grain Drill Attachment.*



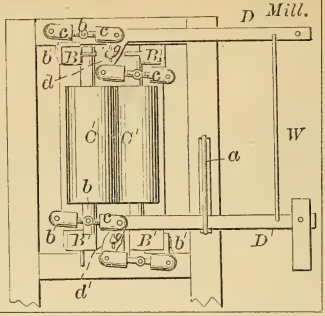

**86352**—S. Bennett—*For Grinding Tools.*



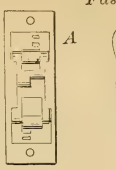
**86357**—H. J. Burr—*Stair Rod.*



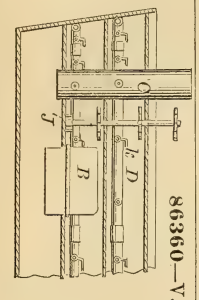

**86358**—V. H. Buschmann—*Saw Mill.*

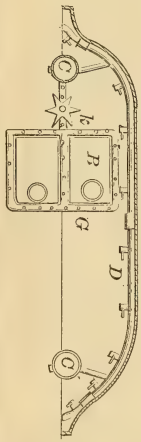



**86359**—C. H. Cain—*Sash Fastener.*

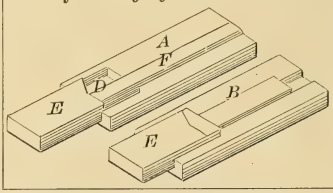



**86360**—V. E. Campbell—*Fire Extinguishing Apparatus for Vessels.*

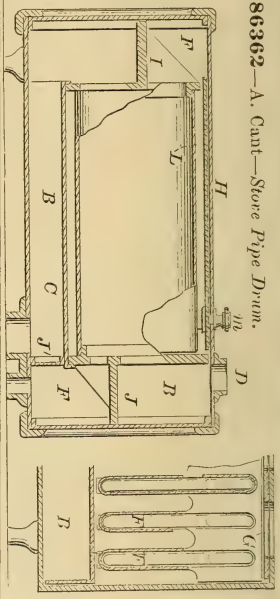


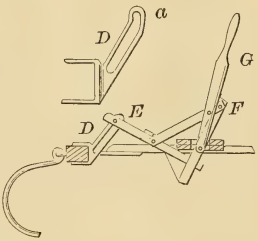

**86361**—Candee & Taylor—*Die for Forging Wrench Heads.*



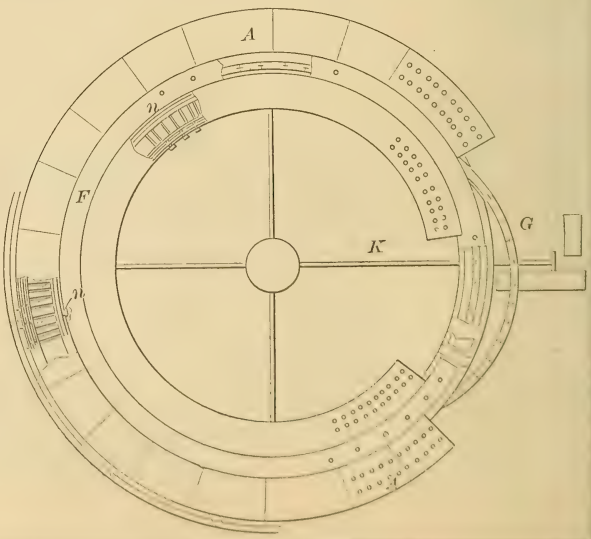

**86362**—A. Cant—*Stove Pipe Drum.*



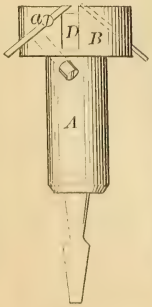

**86366**—L. Clinton—*Horse Rake.*



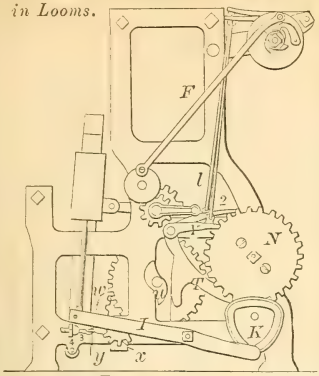

**86363**—P. Clark—*Brick Kiln.*

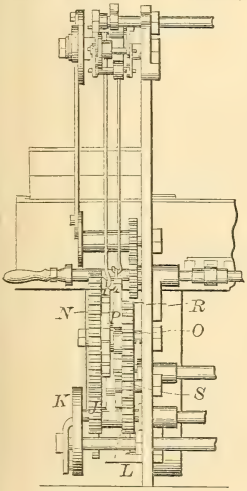



**86364**—W. A. Clark—*Hollow Auger.*

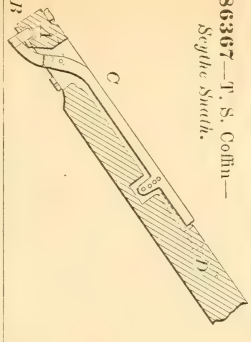


**86365**—T. Cleary—*Shuttle Box in Looms.*

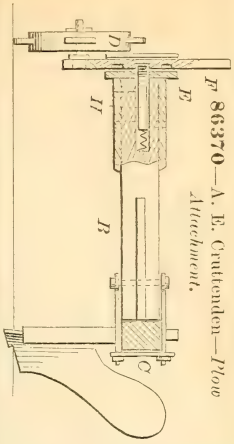


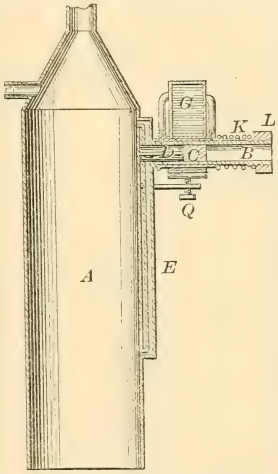

**86367**—T. S. Coffin—*Scythe Stack.*



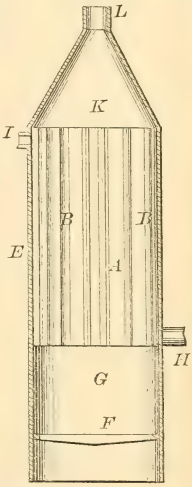

**86370**—A. E. Cruttenden—*Plow Attachment.*

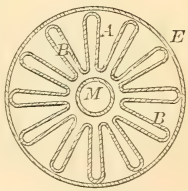



**86372**—J. A. Davis—*Feed Water Device for Boilers.*

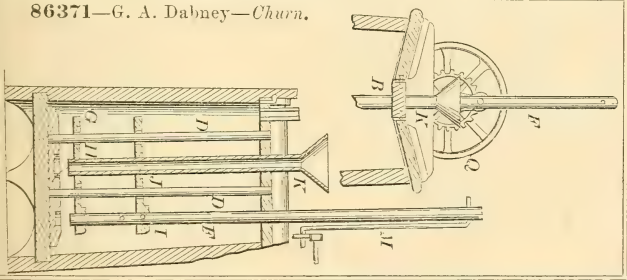



**86373**—J. A. Davis—*Steam Generator.*

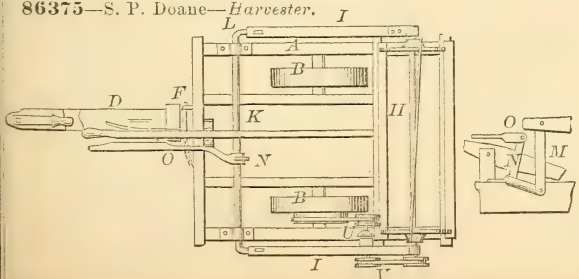


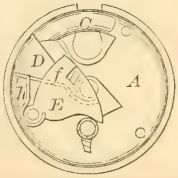

**86371**—G. A. Dabney—*Churn.*



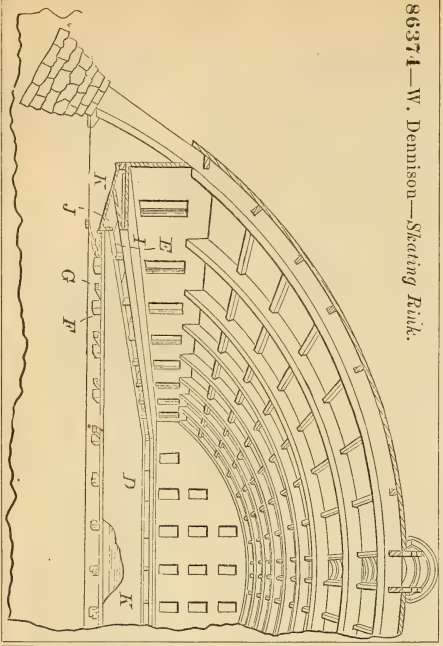

**86375**—S. P. Doane—*Harvester.*




**86377**—F. Egge—*Padlock.*

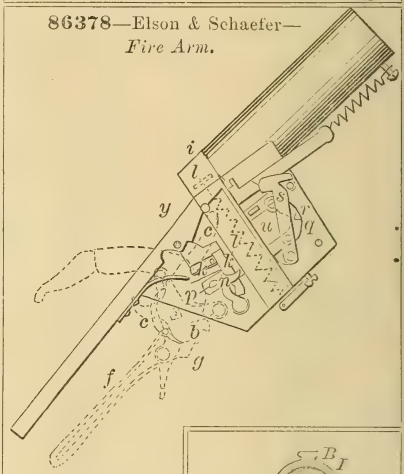


**86374**—W. Dennison—*Skating Rink.*

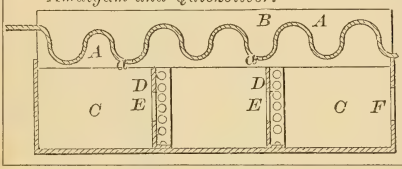



**86376**—C. Drew—*Harness Pad.*

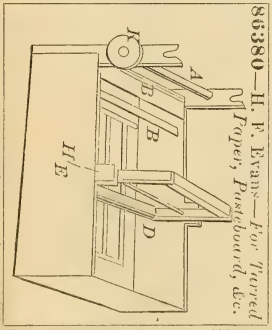
**86378**—Elson & Schaefer—*Fire Arm.*



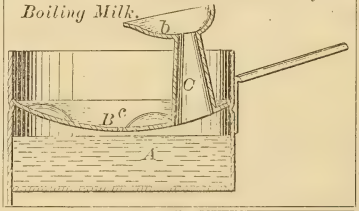

**86379**—G. R. Evans—*For Saving Gold, Amalgam and Quicksilver.*



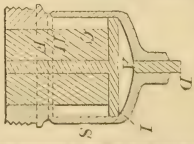

**86380**—H. F. Evans—*For Tarred Paper, Pasteboard, &c.*



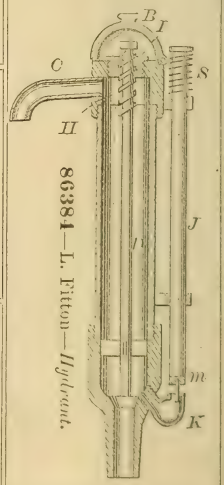

**86385**—H. Friedländer—*Kettle for Boiling Milk.*



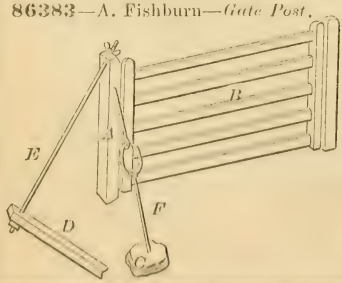

**86381**—W. Evered—*Steam Engine Balanced Valve.*



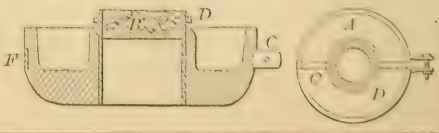

**86384**—L. Fitton—*Hydrant.*



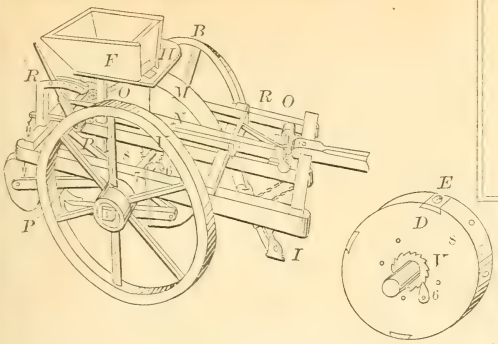

**86383**—A. Fishburn—*Gate Post.*



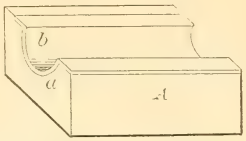

**86382**—F. L. Faries—*Tree Protector.*



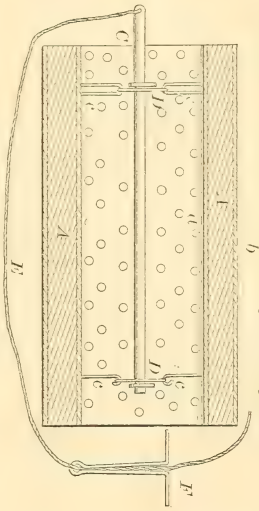
**86386**—W. C. Gardner—*Corn Planter.*



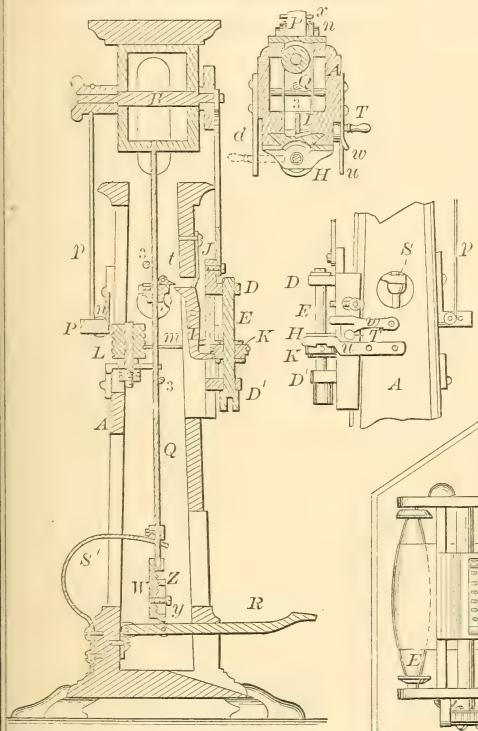

**86387**—D. C. Gately—*Anti-Rattler for Carriages.*



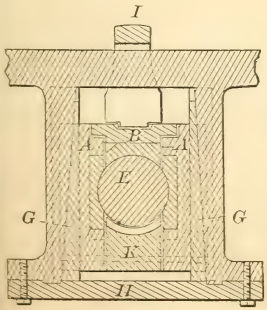

**86388**—D. Gay, Jr.—*For Saving Floating Gold.*



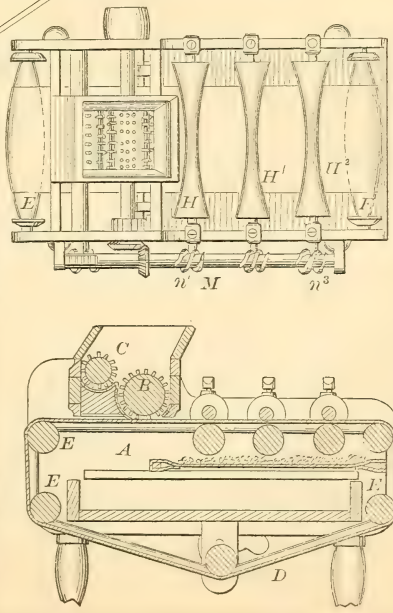

**86389**—D. L. Gibbs—*Mortising Machine.*



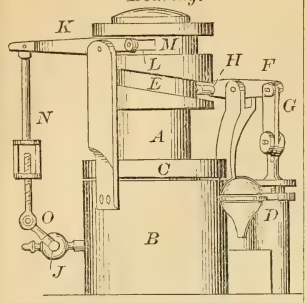

**86390**—J. W. Goff—*Box for Locomotive Driving Axles.*



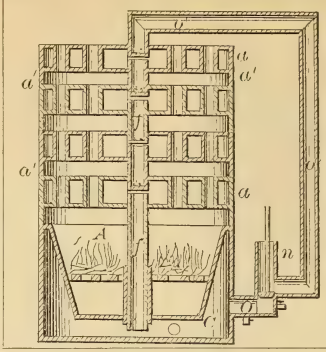

**86391**—E. Greenlee—*Fruit Mill.*



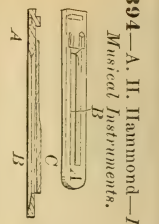
**86392**—J Haas—*Shaft Bearing.*



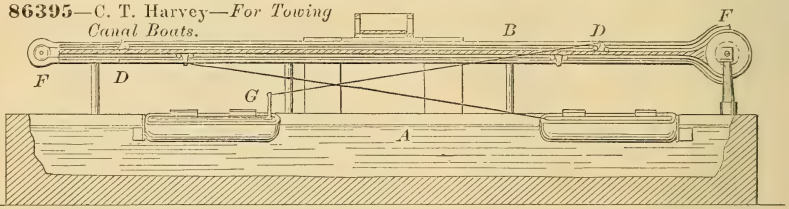

**86393**—C. H. Hall—*Steam Generator.*



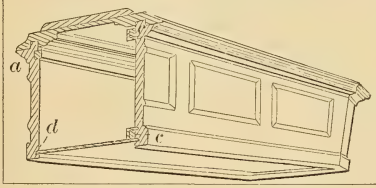

**86394**—A. H. Hammond—*Reed for Musical Instruments.*



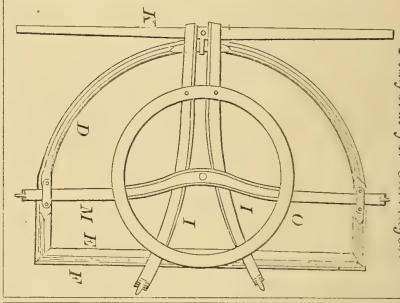

**86395**—C. T. Harvey—*For Towing Canal Boats.*



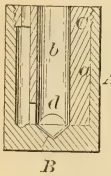

**86396**—J. R. Hathaway—*Burial Case.*




**86397**—J. Heiden—*Front Platform for Carriages.*

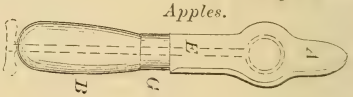


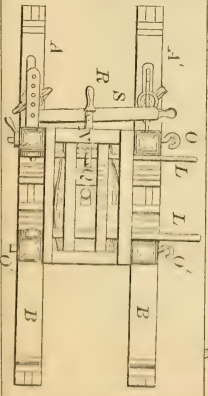

**86399**—W. P. Hopkins—*Steps for Spindles.*



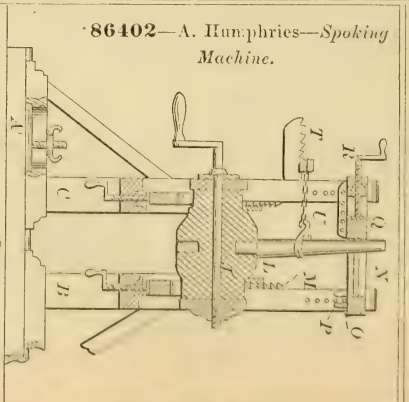

**86400**—S. C. Horton—*Post Hole Auger.*

**86401**—C. D. House—*For Cutting and Coring Apples.*

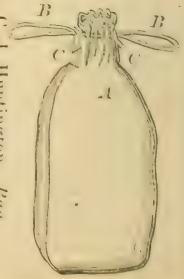


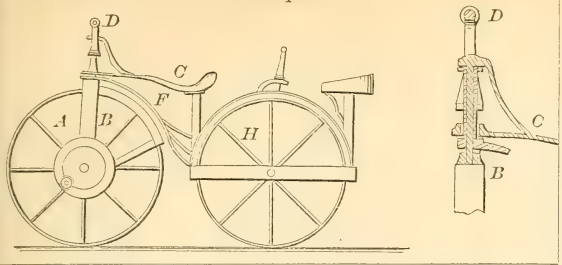

**86402**—A. Humphries—*Spoking Machine.*



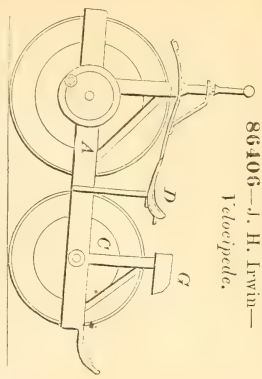

**86403**—C. J. Huntington—*Bag Fastener.*



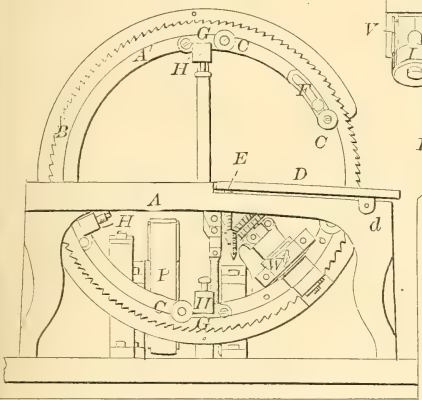
**86405**—J. H. Irwin—*Velocipede.*

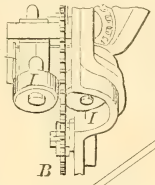



**86406**—J. H. Irwin—*Velocipede.*

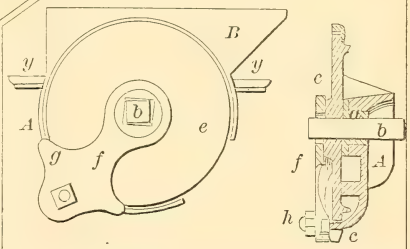



**86407**—N. Jenkins—*Saw.*

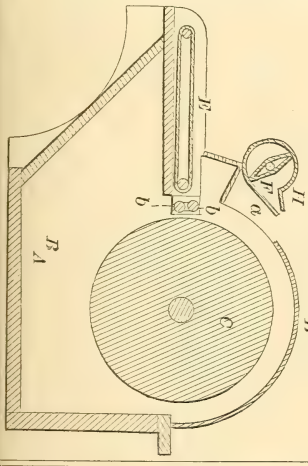


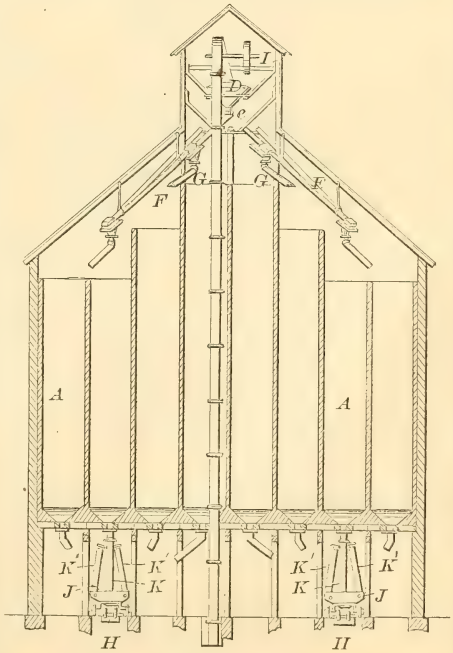

**86408**—W. F. Jessup—*For Seeding.*



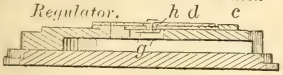

**86409**—A. W. Johnson—*For Working Waste Fibrous Stock.*

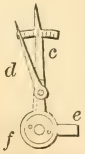



**86410**—G. H. Johnson—*Grain Distributor.*

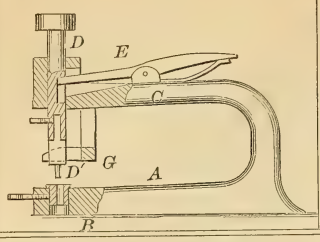


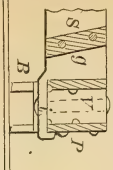

**86411**—F. A. Jones—*Watch Regulator.*



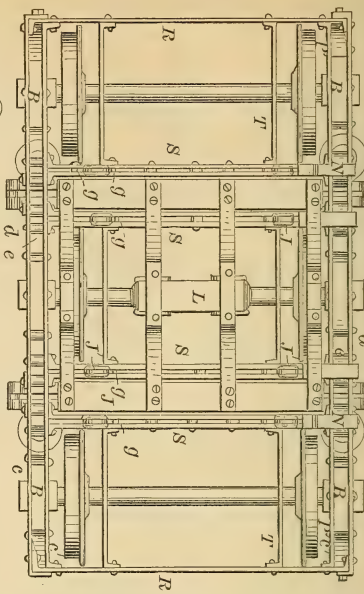



**86412**—J. P. Jubb—*Belt Punch.*

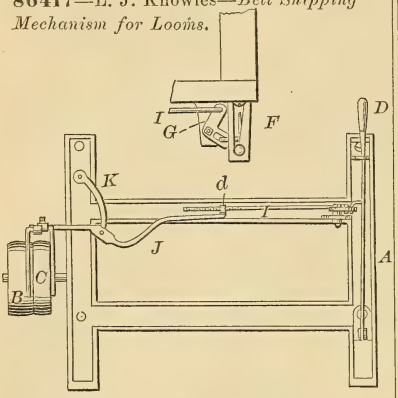


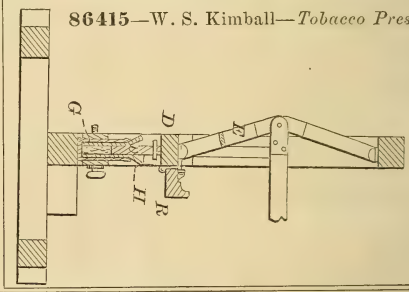

**86416**—Kirkley & Gray—*Railway Car Truck.*



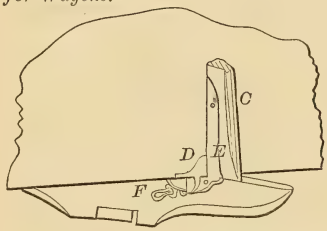

**86417**—L. J. Knowles—*Belt Shipping Mechanism for Looms.*

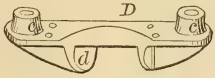


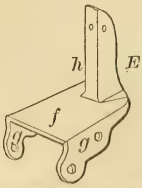

**86415**—W. S. Kimball—*Tobacco Press.*



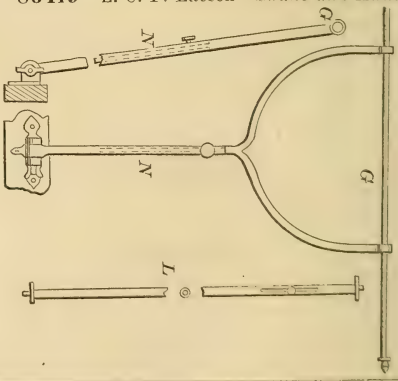

**86418**—H. C. Kochensperger—*Bed Plate, Bolster Plate and Lock Bracket for Wagons.*



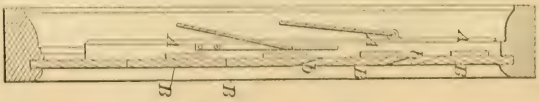



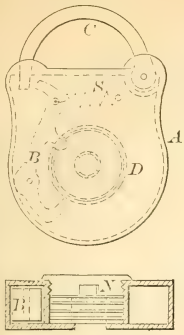

**86419**—L. C. F. Laesch—*Shade and Awning.*



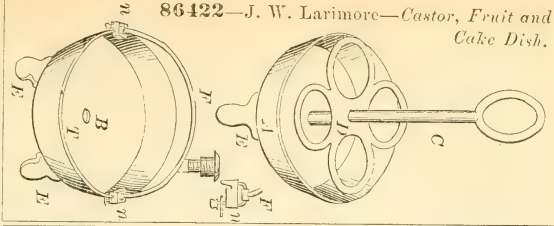

**86413**—H. Kelley—*Ventilator.*



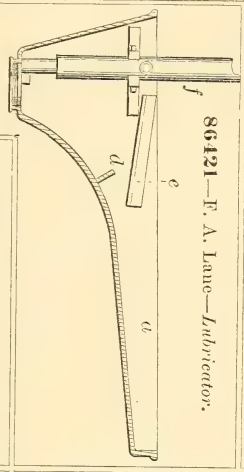
**86420**—I. W. Lamb—*Padlock.*



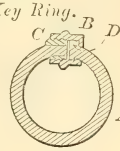
**86422**—J. W. Larimore—*Castor, Fruit and Cake Dish.*



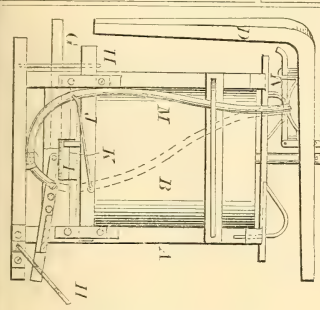
**86421**—E. A. Lane—*Lubricator.*



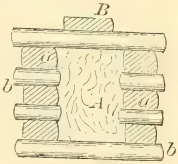
**86424**—G. A. Libbey—*Key Ring.*



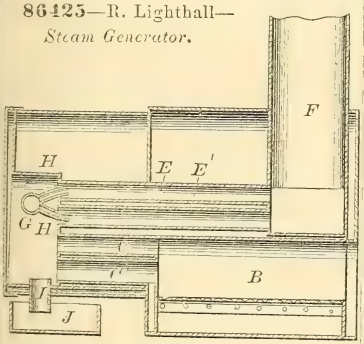
**86423**—Lehr & Thorp—*Brick Machine.*



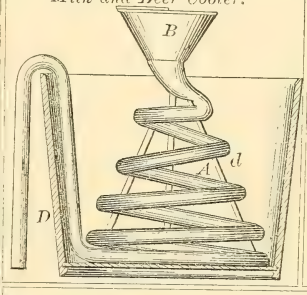
**86427**—W. Loft—*Kindling Block.*



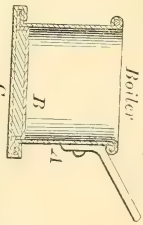
**86425**—R. Lighthall—*Steam Generator.*



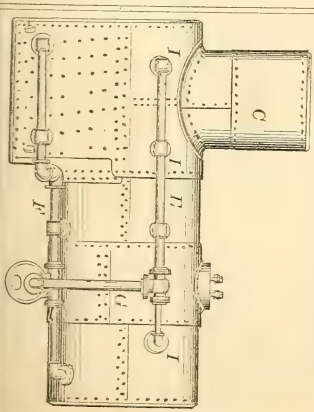
**86430**—O. L. Mayhew—*Milk and Beer Cooler.*



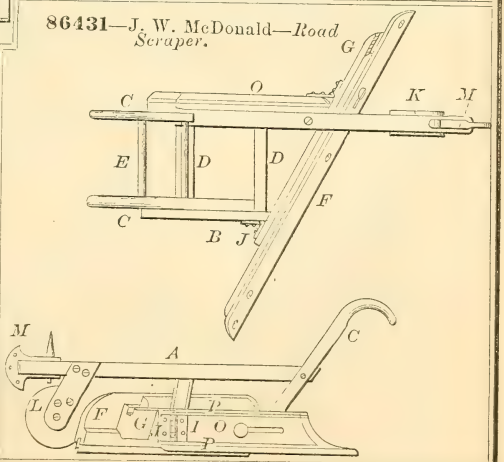
**86428**—S. P. Loomis—*Boiler.*



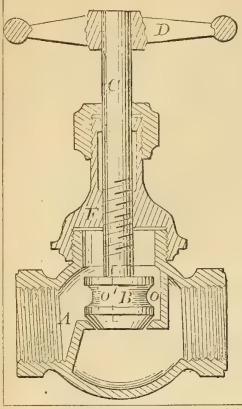
**86429**—C. Mason—*Steam Generator.*



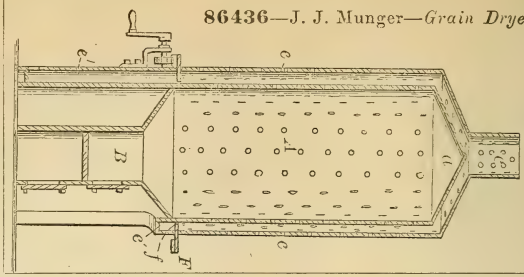
**86431**—J. W. McDonald—*Road Scraper.*



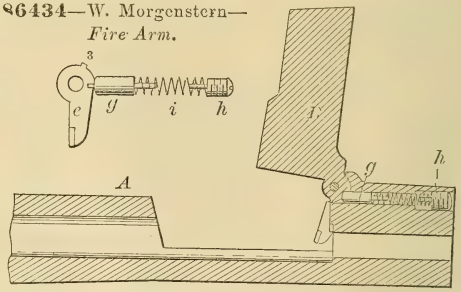
**86432**—R. Mears—*Globe Valve.*



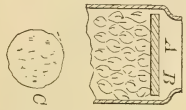

**86436**—J. J. Munger—*Grain Dryer.*




**86434**—W. Morgenstern—*Fire Arm.*

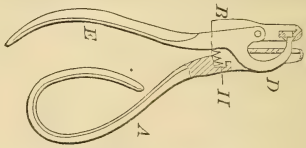



**86433**—D. M. Mefford

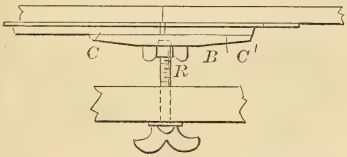



*For Preserving Fruit.*

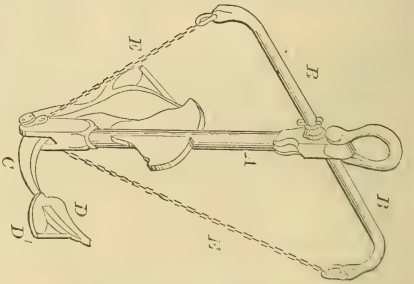
**86438**—Palmer & Leslie—*Ticket Punch.*



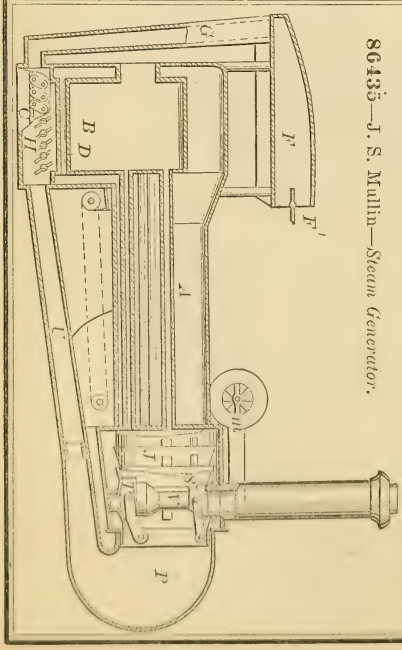

**86437**—G. W. Ouram—*Shutter Fastening.*



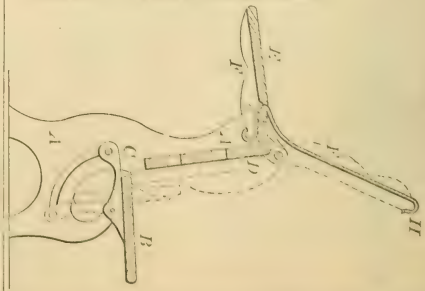

**86439**—G. C. Pattison—*Anchor.*



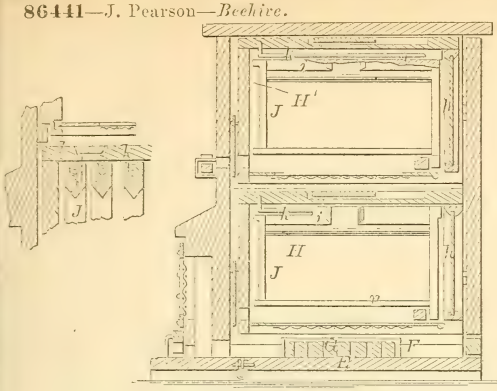

**86435**—J. S. Mullin—*Steam Generator.*



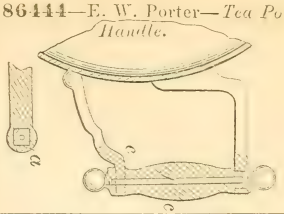

**86440**—J. Peard—*School Desk.*



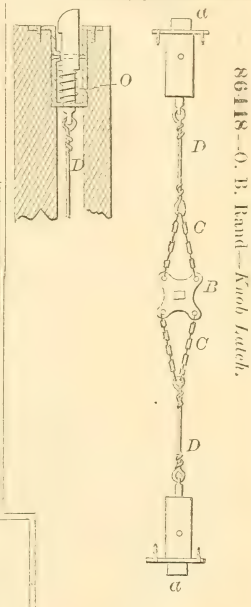
**86441**—J. Pearson—*Beehive.*



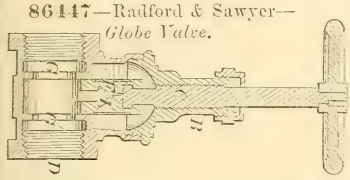

**86444**—E. W. Porter—*Tea Pot Handle.*



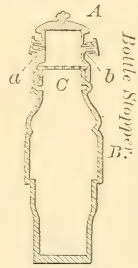

**86448**—O. B. Rand—*Knob Latch.*



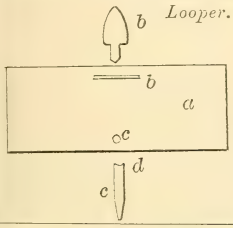

**86447**—Radford & Sawyer—*Globe Valve.*



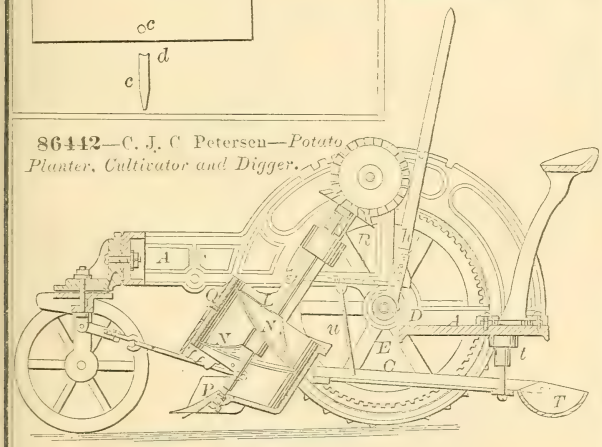

**86446**—Quinn & Putnam—*Bottle Stopper.*

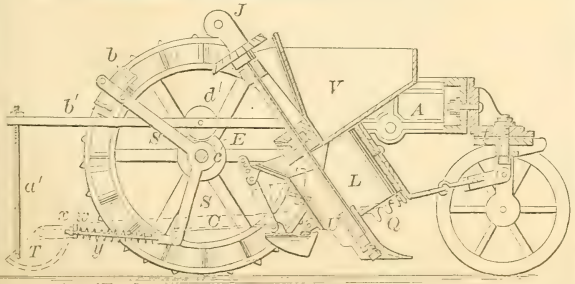



**86445**—G. L. Price—*Carpet Rag Looper.*

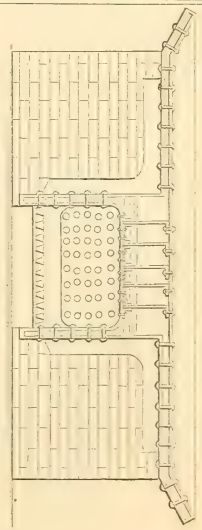



**86442**—C. J. C Petersen—*Potato Planter, Cultivator and Digger.*

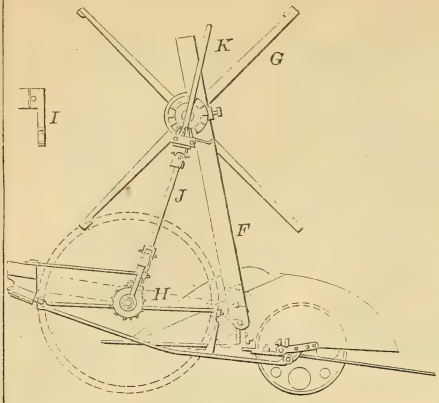


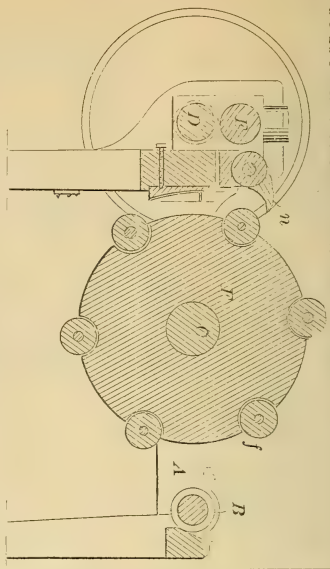

**86443**—S. Platt—*For Evaporating Brine, &c.*



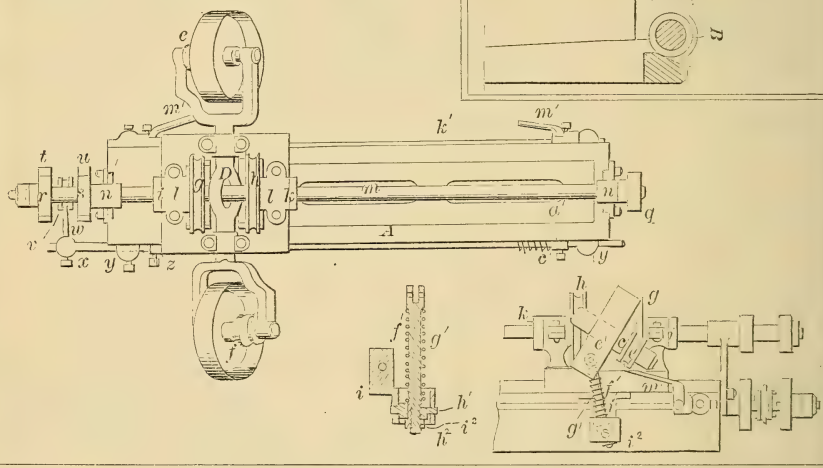
**86449**—Rank & Cox—*Harrester.*



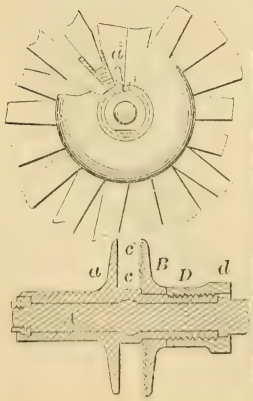

**86450**—A. Reese—*Horse Shoe Nail Machine.*



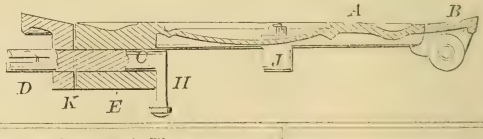

**86452**—J. Robb—*For Grinding Cards.*



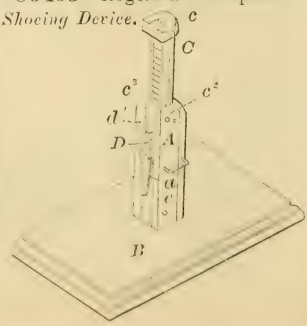

**86451**—N. Rixford—*Wagon.*



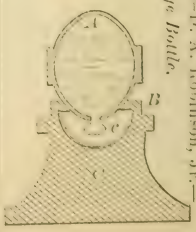

**86454**—W. A. Robinson—*Bolt for Stove Doors.*



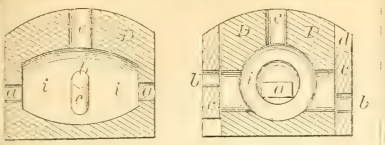

**86455**—Rogers & Thompson—*Shoeing Device.*



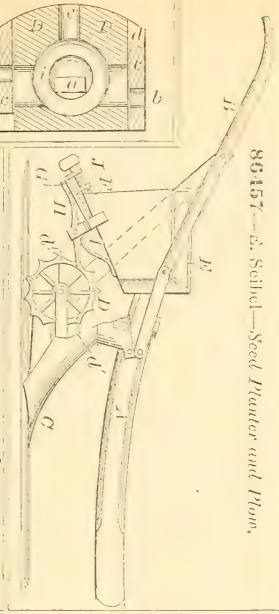

**86453**—P. A. Robinson, Jr.—*Mucilage Bottle.*



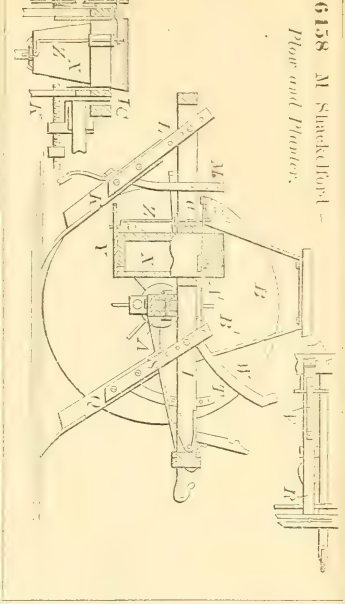
86456—J. Roy—*For Heating Metals.*



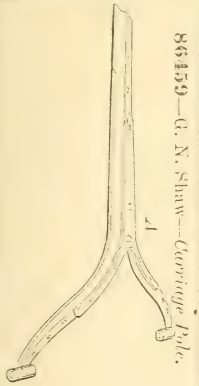
86457—E. Seibel—*Seed Planter and Plow.*



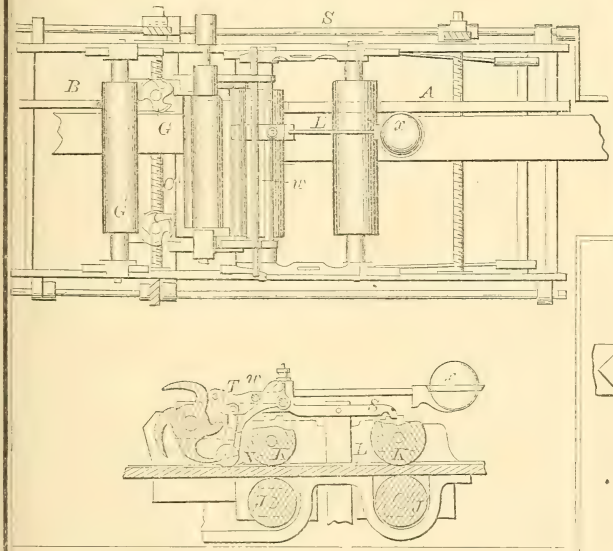
86458—M. Shackelford—*Plow and Planter.*



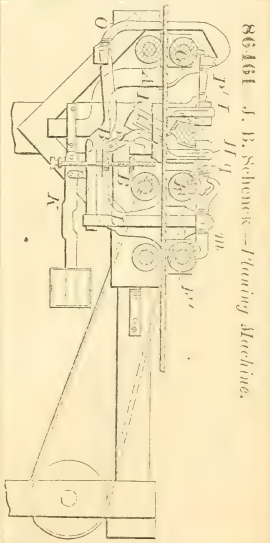
86459—G. N. Shaw—*Carriage Pole.*



86460—J. B. Schenck—*Planing Machine.*

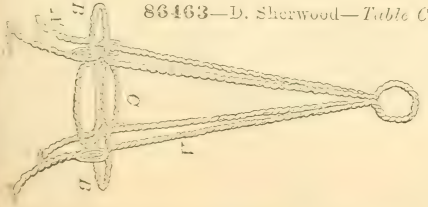


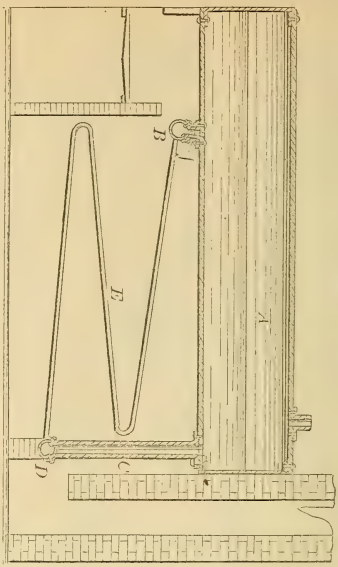
86461—J. B. Schenck—*Planing Machine.*



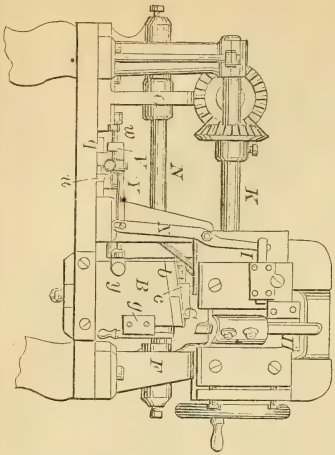
86467—E. W. Sperry—*Hardening Dies.*

86463—D. Sherwood—*Table Caster.*

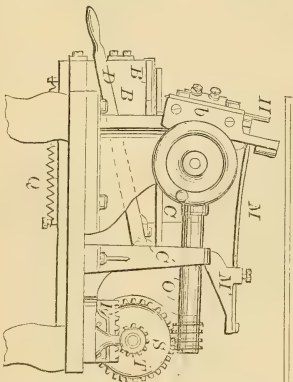




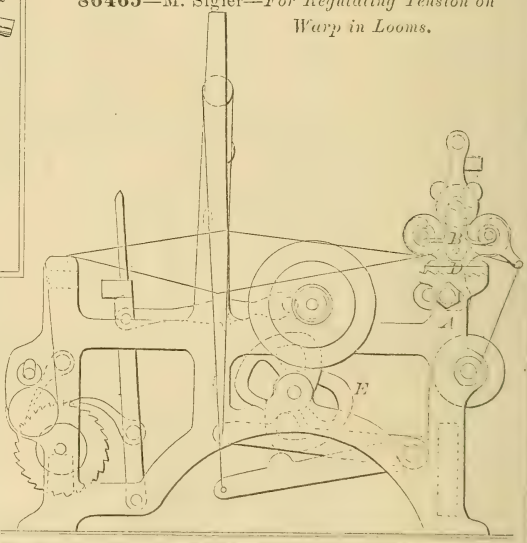
**86464**—O. P. Shiras—*Steam Generator.*



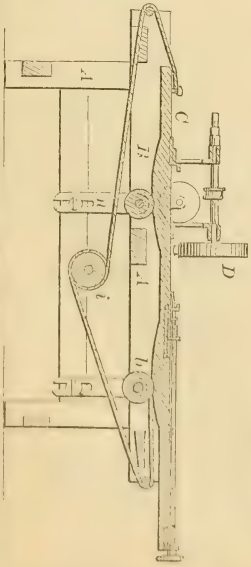
**86462**—S. D. Sheldon—*For Serrating Sickle Sections.*



**86465**—M. Sigler—*For Regulating Tension on Warp in Looms.*

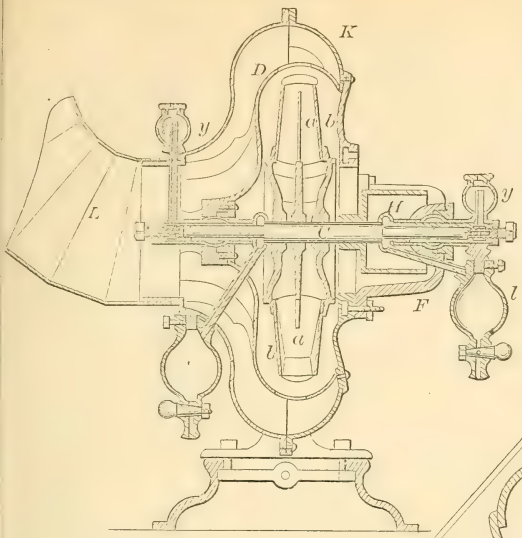


**86466**—Smith & Wood—*Hydrant.*

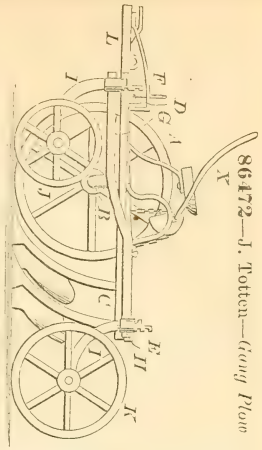


**86468**—Stricker & Lefeber—*Stave Dressing Machine.*

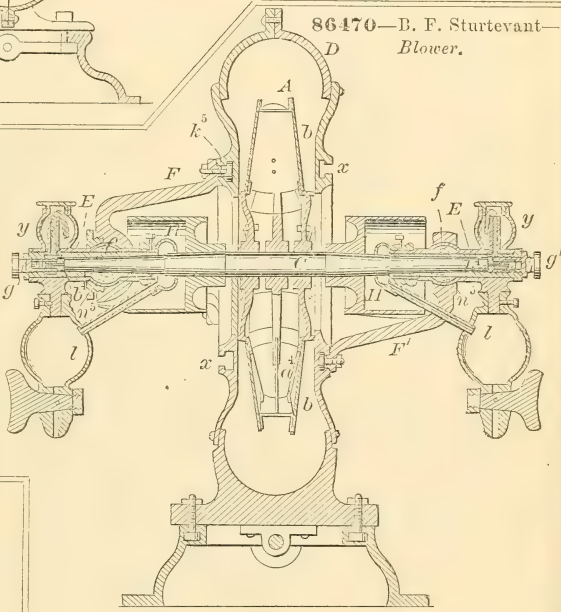
**86469**—B. F. Sturtevant—*Blower.*



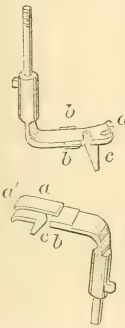
**86472**—J. Totten—*Gang Plow.*



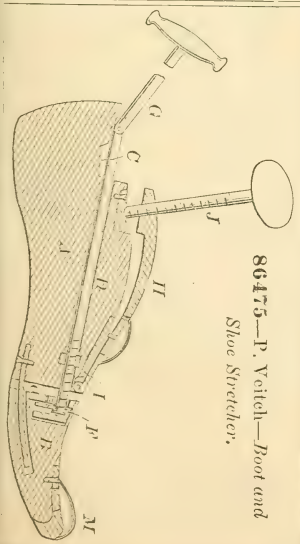
**86470**—B. F. Sturtevant—*Blower.*

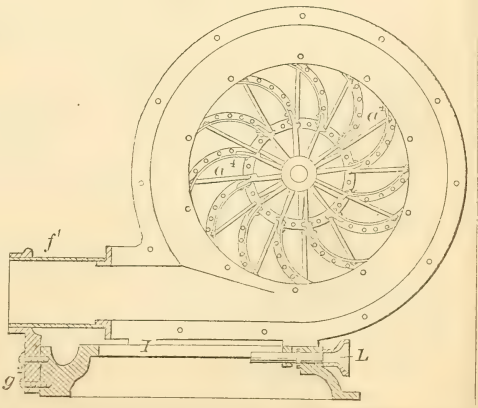


**86474**—W. H. Van Vlear—*Sewing Machine Guide.*

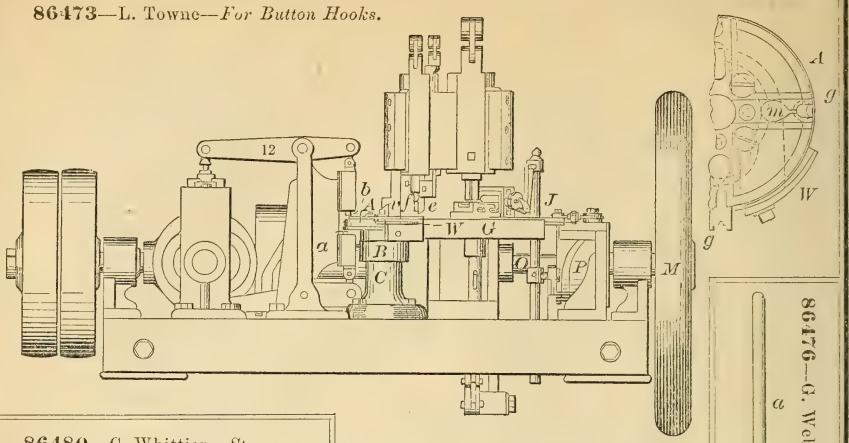


**86475**—P. Veitch—*Boot and Shoe Stretcher.*

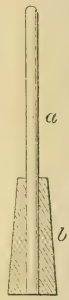




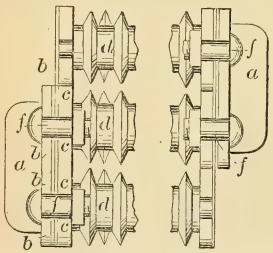
**86473**—L. Towne—*For Button Hooks.*



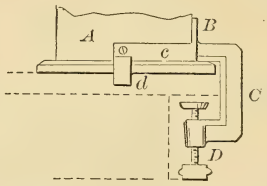
**86476**—G. Webb—*Fence Post.*



**86480**—C. Whittier—*Steam Heater.*

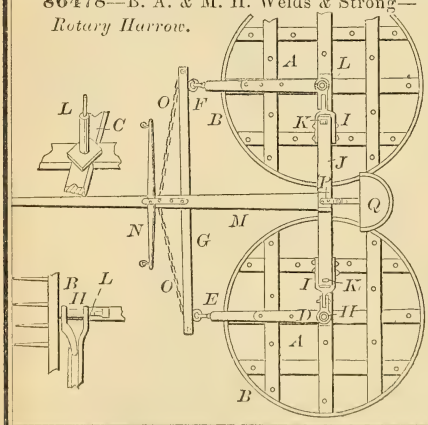


**86484**—J. Winkler—*Coffee Mill Fastener.*

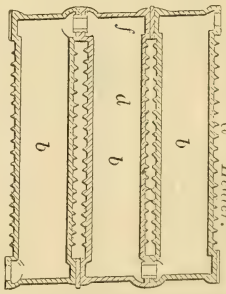


**86483**—N. A. Williams—*Shuttle.*

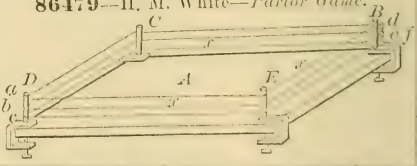
**86478**—B. A. & M. H. Welds & Strong—*Rotary Harrow.*



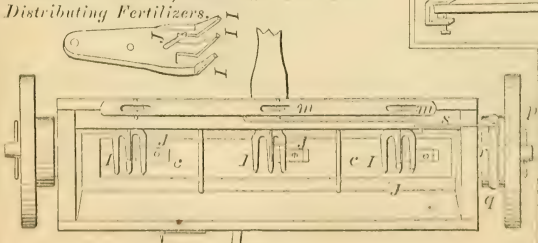
**86481**—C. Whittier—*Steam Heater.*



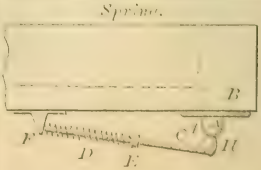
**86479**—H. M. White—*Parlor Game.*



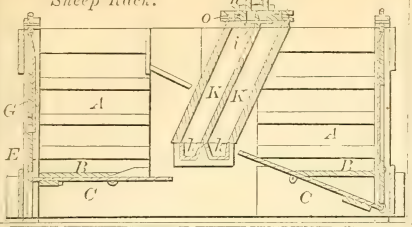
**86477**—Weirick, Weller & Rohr—*For Distributing Fertilizers.*



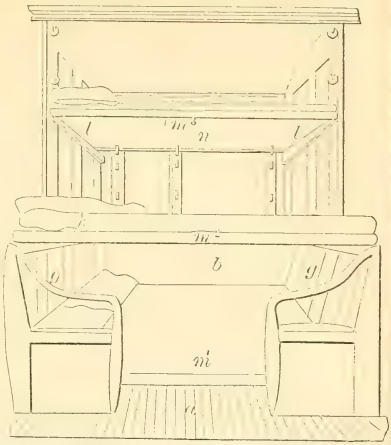
**86482**—F. S. Willcox—*Door Spring.*



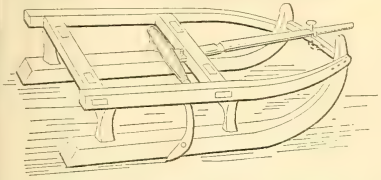
86485—M. S. Woodbury—*Sheep Rack.*



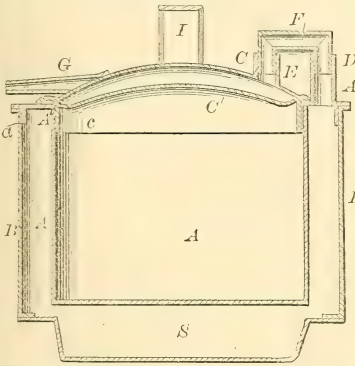

86486—T. T. Woodruff—*Sleeping Car.*



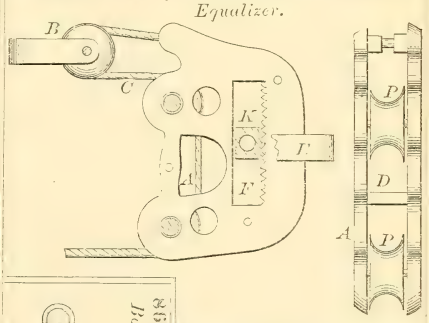

86487—A. W. Wright—*Sled Brake.*



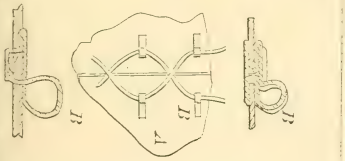
86488—E. K. Ames—*Culinary Boiler.*



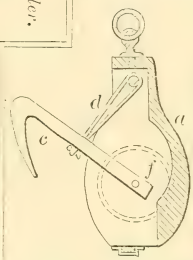

86491—Avery & Leckenby—*Three Horse Equalizer.*



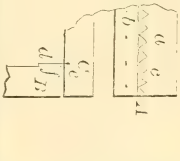

86494—W. Banister—*Boot Lacing.*



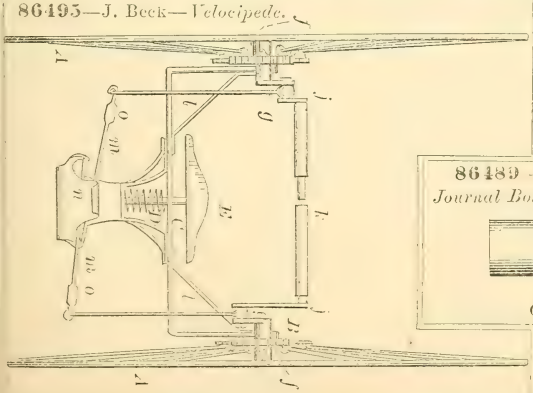

86490—Atwood & Hatch—*Boot Detaching Apparatus.*



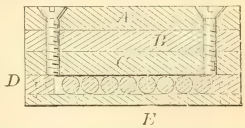

86492—S. Baker—*Safety Strip for Packing Cases.*



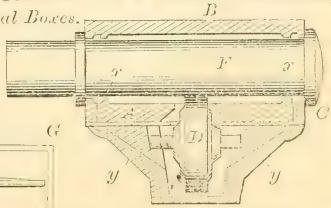

86495—J. Beck—*Velocipede.*



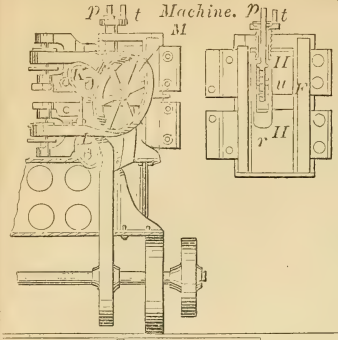

86493—R. A. Ballou—*Safe.*



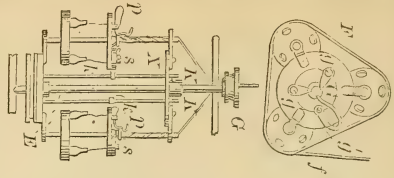

86489—Atwood & Bodwell—*Lubricating Journal Boxes.*



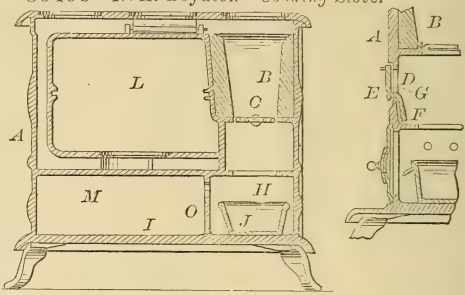
**86496**—Bchel & Nelson—*Tenoning Machine.*



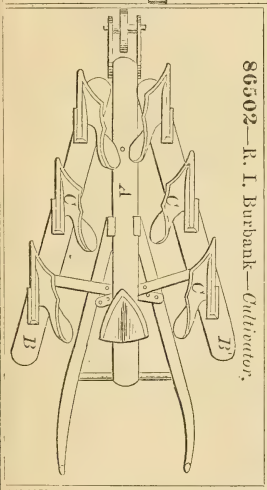
**86497**—H. Boardman—*For Making Cord.*



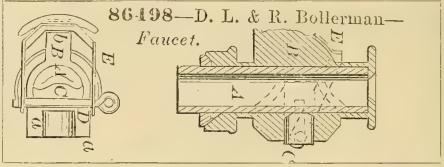
**86499**—N. A. Boynton—*Cooking Stove.*



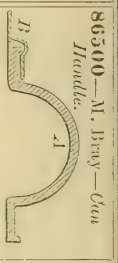
**86502**—R. I. Burbank—*Cultivator.*



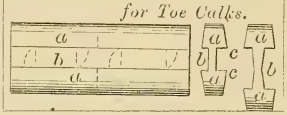
**86498**—D. L. & R. Bollerman—*Faucet.*



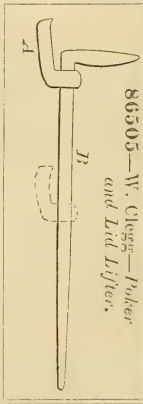
**86500**—M. Bray—*Car Handle.*



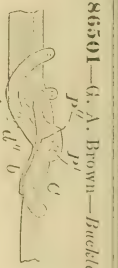
**86503**—P. F. Burke—*Bar for Toe Calks.*



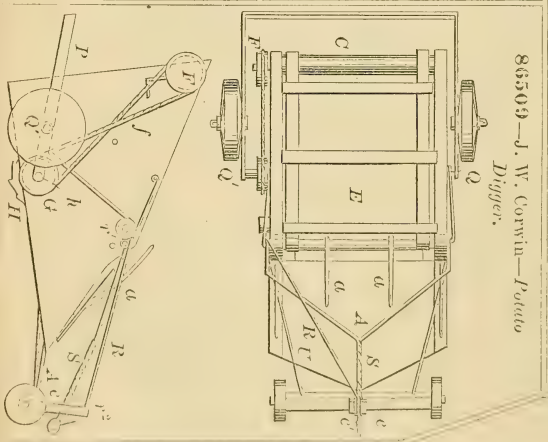
**86505**—W. Clegg—*Poker and Lid Lifter.*



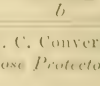
**86501**—G. A. Brown—*Buckle.*



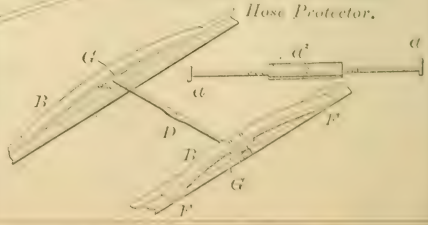
**86509**—J. W. Corwin—*Potato Digger.*



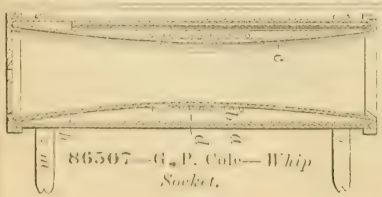
**86504**—J. H. Cheever—*Metal and Rubber Tire.*



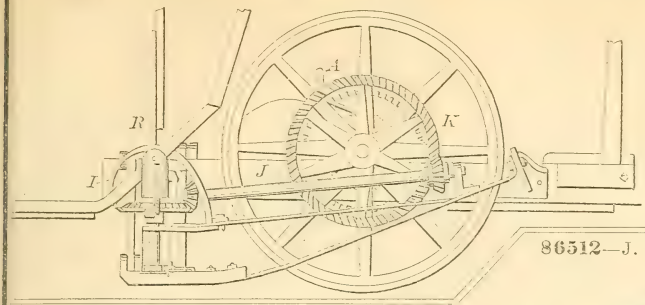
**86508**—C. C. Converse—*Hose Protector.*



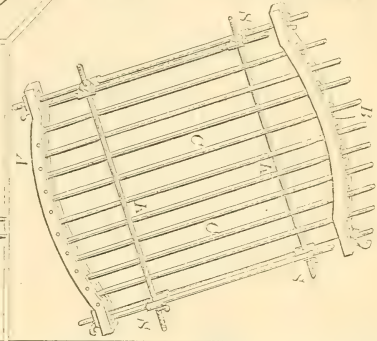
**86507**—G. P. Cole—*Whip Socket.*



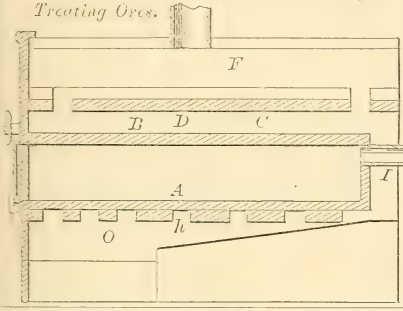
86511—J. D. Custer—*Harvester Rake.*



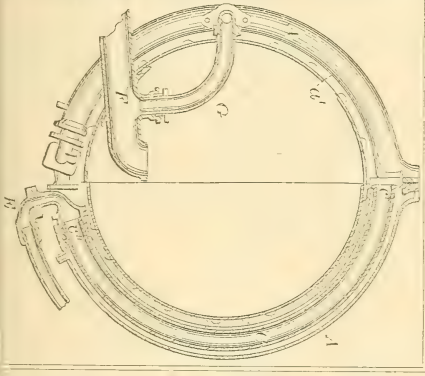

86512—J. J. Diehl—*Door Mat.*



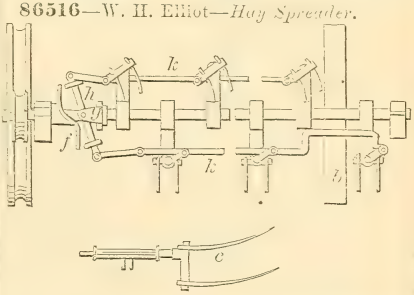

86514—H. H. Eames—*Desulphurizing and Treating Ores.*



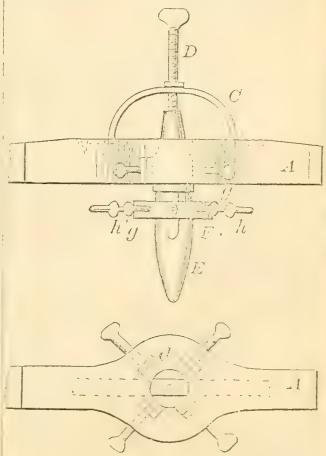

86515—R. Eaton—*Feed Water Heater.*



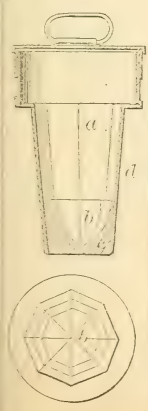

86516—W. H. Elliot—*Hay Spreader.*



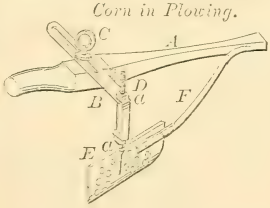

86518—A. Eshelman—*Mill Staff.*



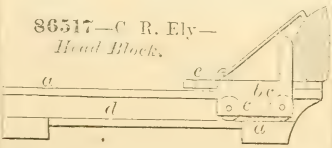

86519—P. Fild—*Ice Cream Mould.*



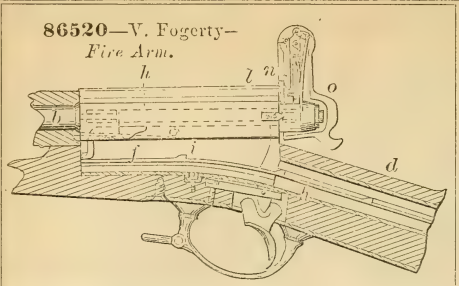

86521—J. Fox—*Shield for Corn in Plowing.*



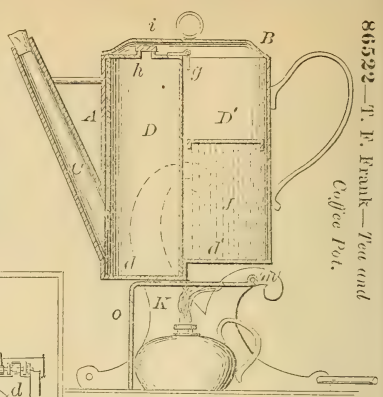

86517—C. R. Ely—*Head Block.*



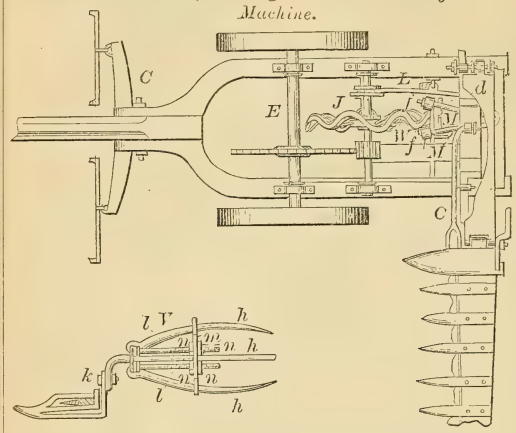
**86520**—V. Fogerty—*Fire Arm.*



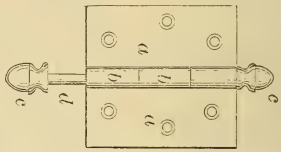
**86522**—T. F. Frank—*Tea and Coffee Pot.*



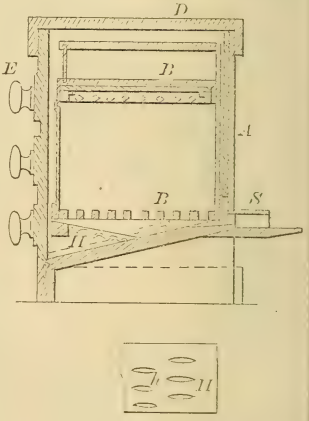
**86523**—Franklin, Hastings & Gates—*Mowing Machine.*



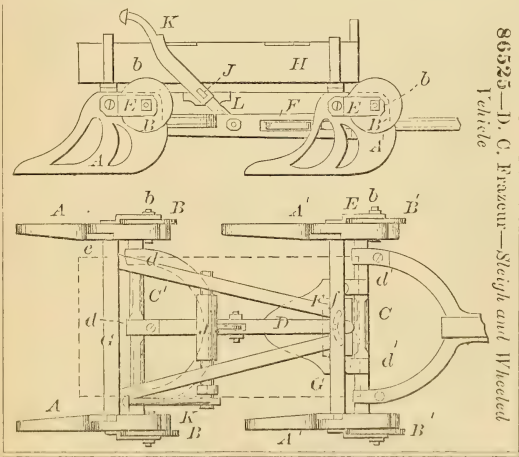
**86524**—J. D. Frary—*Butt.*



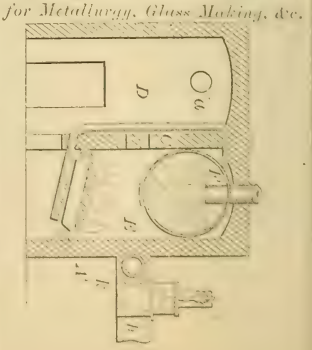
**86528**—D. S. Gray—*Bee House.*



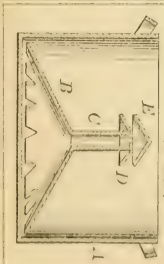
**86525**—D. C. Frazeur—*Sleigh and Wheeled Vehicle*



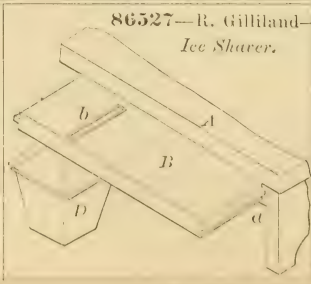
**86529**—J. Green—*Gas Apparatus for Metallurgy, Glass Making, &c.*

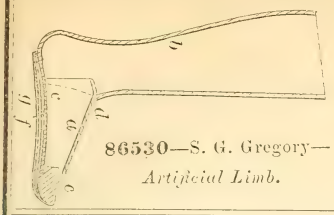


**86526**—P. Frenz—*Wash Boiler.*



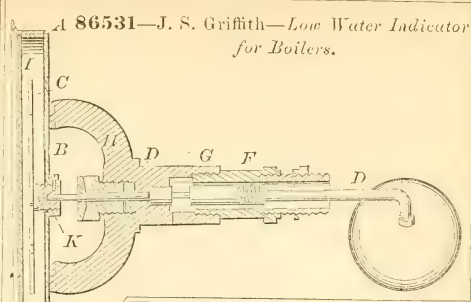
**86527**—R. Gilliland—*Ice Shaver.*



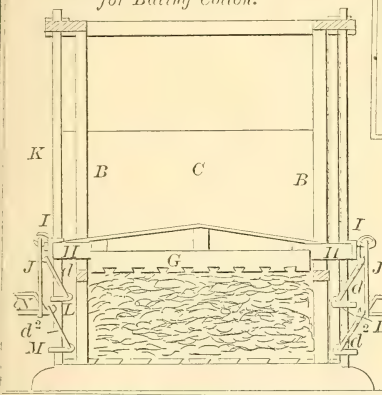


86530—S. G. Gregory—*Artificial Limb.*

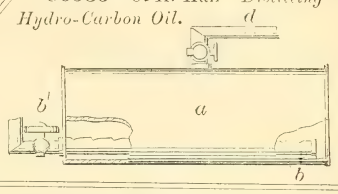
A 86531—J. S. Griffith—*Low Water Indicator for Boilers.*



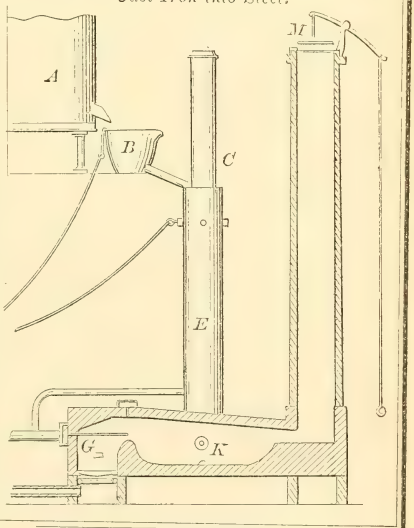
86532—B. D. Gullett—*Press for Baling Cotton.*



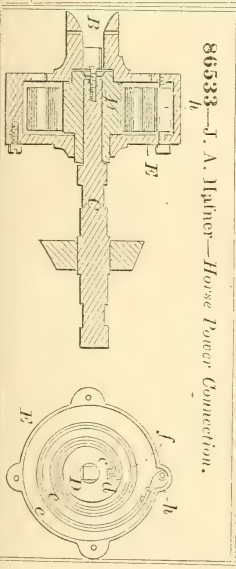
86535—C. H. Hall—*Distilling Hydro-Carbon Oil.*



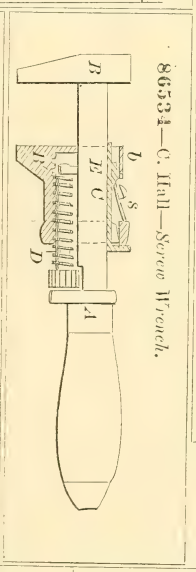
86536—A. Hamar—*For Converting Cast Iron into Steel.*



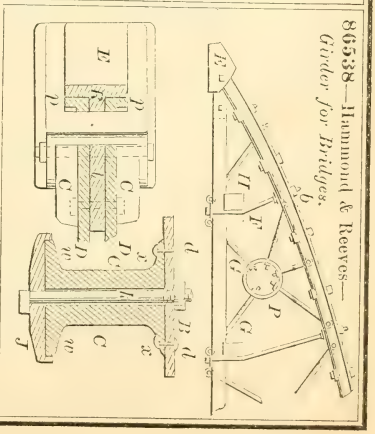
86533—J. A. Hafner—*Horse Power Connection.*

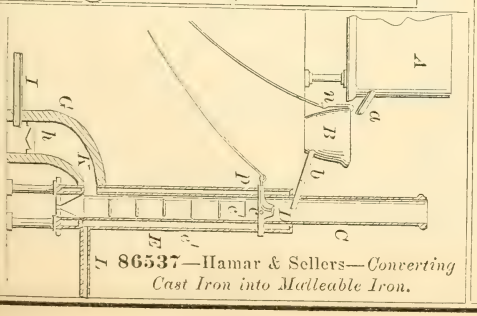


86534—C. Hall—*Screw Wrench.*



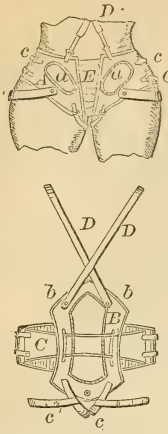
86538—Hammond & Reeves—*Girder for Bridges.*



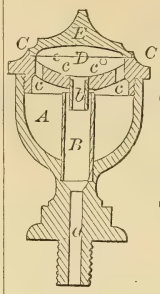


86537—Hamar & Sellers—*Converting Cast Iron into Malleable Iron.*

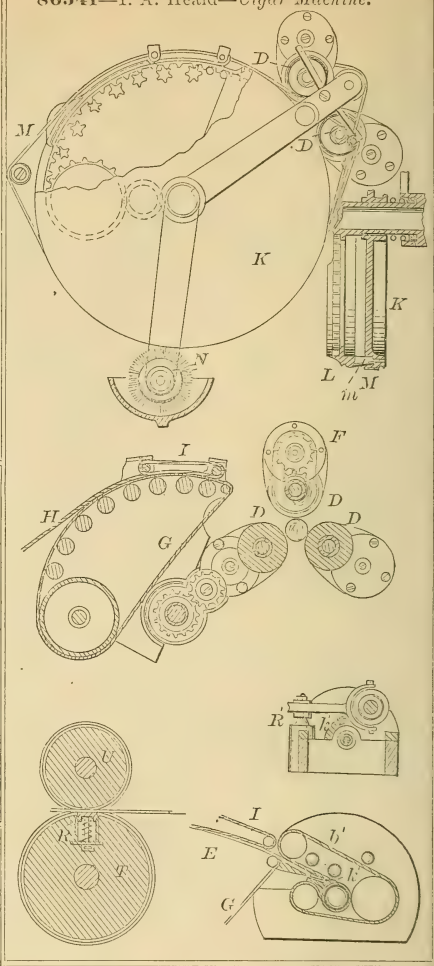
**86539**—Mrs. E. J. Harding—*Abdominal Supporter.*



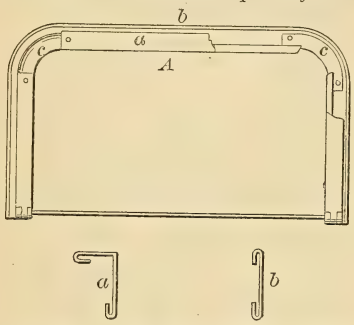

**86540**—D. Harrigan—*Oil Cup.*



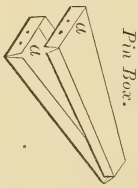

**86541**—I. A. Heald—*Cigar Machine.*



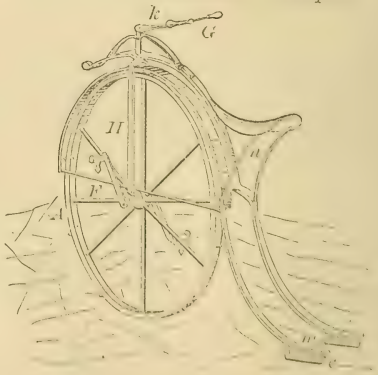

**86542**—F. Herman—*Carpet Bag Frame.*



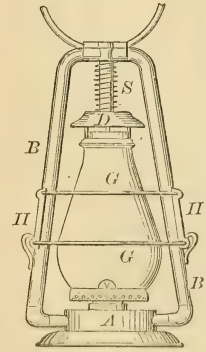

**86544**—J. C. Howells—*Hair Pin Box.*

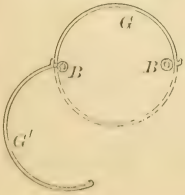



**86545**—E. N. Huntsman—*Velocipede.*

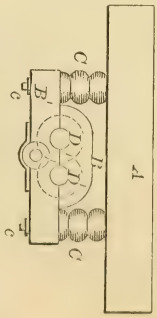



**86548**—J. H. Irwin—*Lantern.*

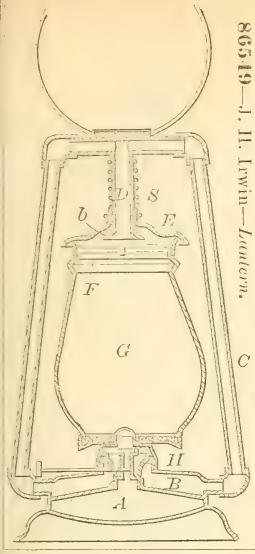


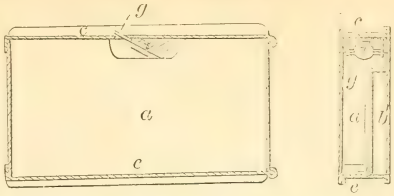

**86543**—A. Higley—*Safe Box.*



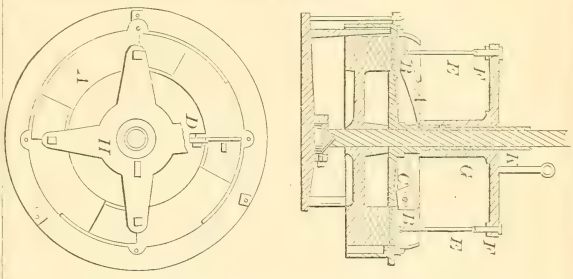
**86549**—J. H. Irwin—*Lantern.*



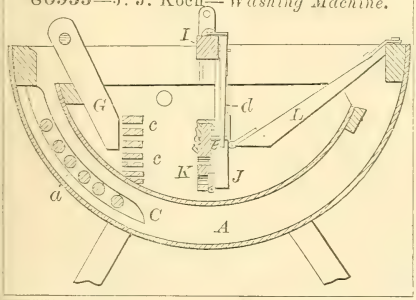

**86550**—J. P. Jamison—*Tobacco Box.*



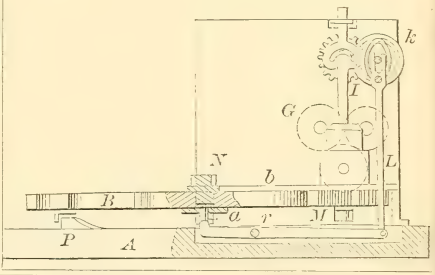

**86556**—D. Lane—*Water Wheel.*




**86555**—J. J. Koch—*Washing Machine.*

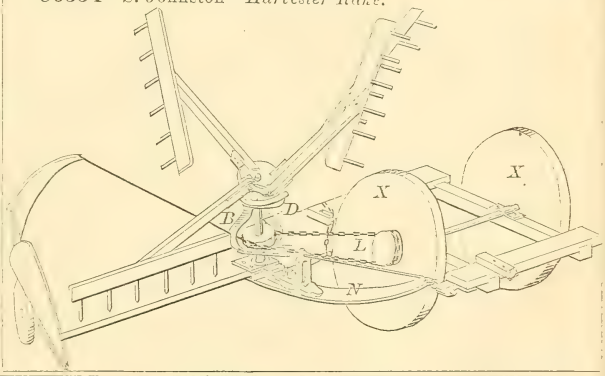



**86557**—W. O. Leslie—*Brick Machine.*

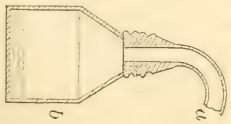



**86552**—Johnson & Ingersoll—*Blind Fastener.*

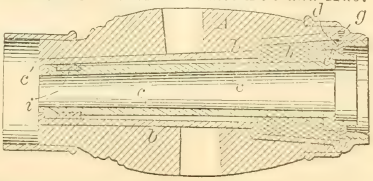
**86554**—S. Johnston—*Harvester Rake.*



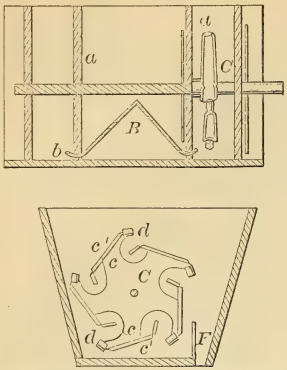

**86553**—J. Johnson—*Collecting Exudable Products of Pine Trees.*



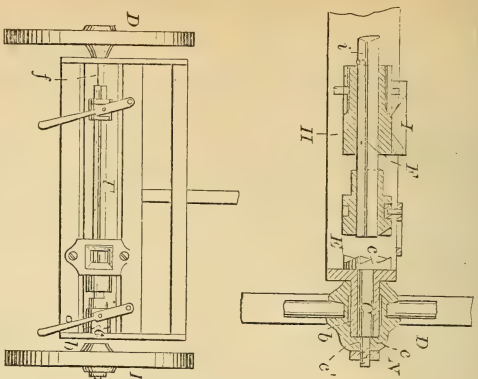

**86558**—G. Leverich—*Axle Box and Hub.*



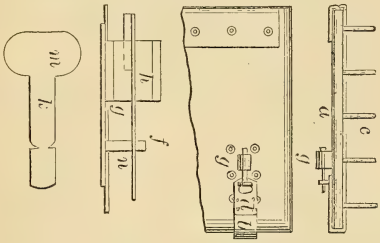
**86559**—J. L. Linderman—*Seed Sower.*



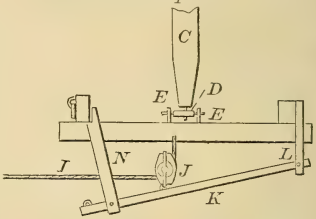
**86561**—Lowth & Howe—*Seed Sower.*



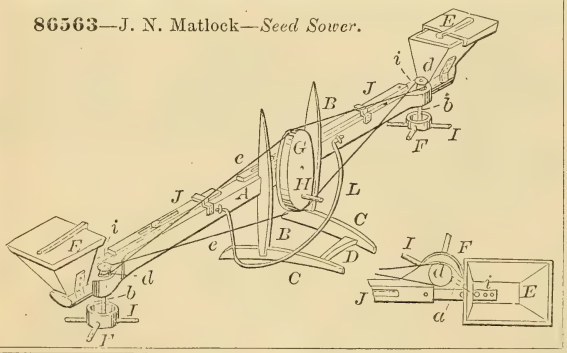
**86560**—Locke & Mason—*Lock.*



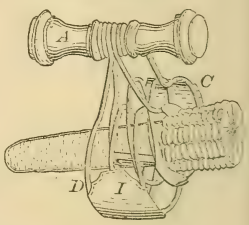
**86564**—Matteson & Williamson—*Grain Separator.*



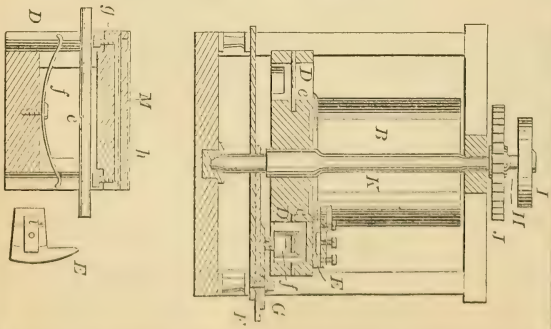
**86563**—J. N. Matlock—*Seed Sower.*



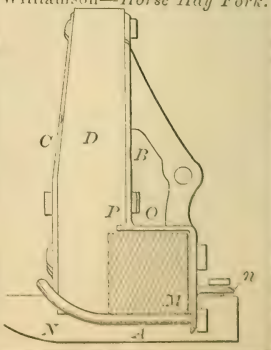
**86562**—W. I. Ludlow—*Corn Sheller.*



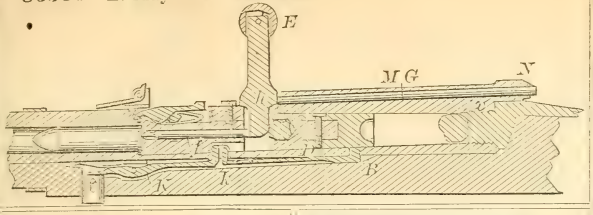
**86567**—G. W. McCann—*Brick Machine.*



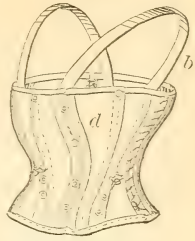
**86565**—Matteson & Williamson—*Horse Hay Fork.*



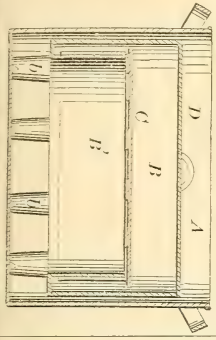
86566—E. Maynard—*Fire Arm.*



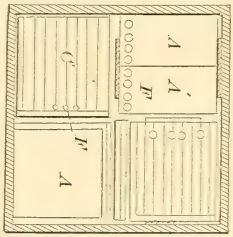
86570—E. J. Meriman—*Corset.*

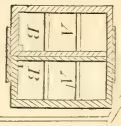


86568—S. A. McGeorge—*Wash Boiler.*

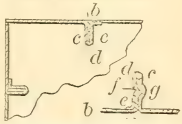


86569—S. D. Meador—*Beehive.*

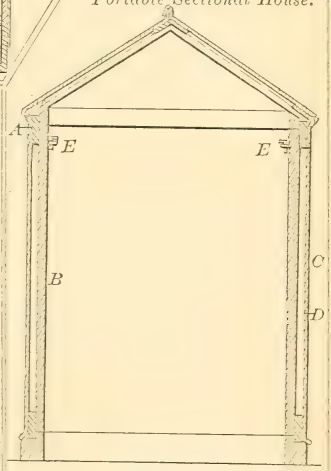




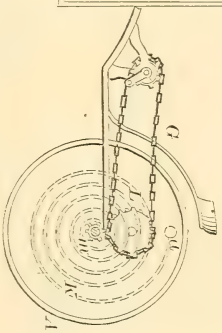
86571—H. Miller—*Sheet Metal Can.*

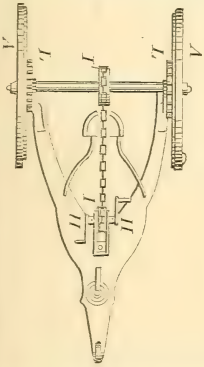


86572—J. Montgomery—*Portable Sectional House.*



86573—J. A. Morrell—*Velocipede.*



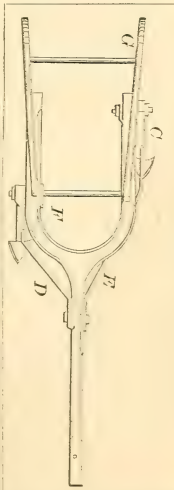


86576—Murphy & Barber—*For Splitting Match Splints.*

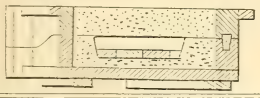
Fig 2

Fig. 3

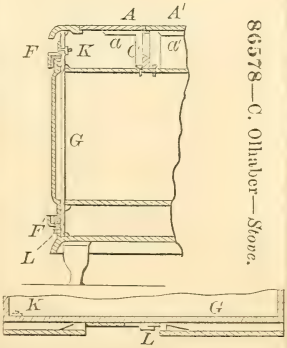
86577—J. W. Nicholson—*Shovel Plow.*



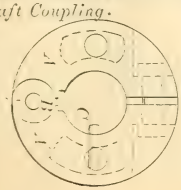
86579—J. Oliver—*Chill for Casting Mould Boards.*



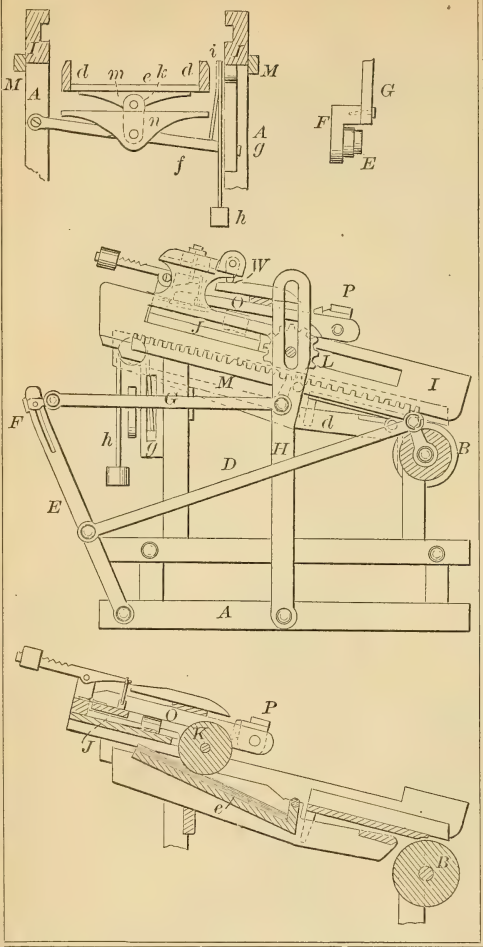
86578—C. Ollander—*Stove.*



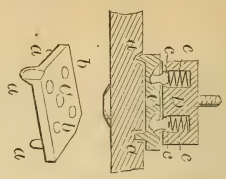
86581—E. E. & C. T. Packer—*Shaft Coupling.*



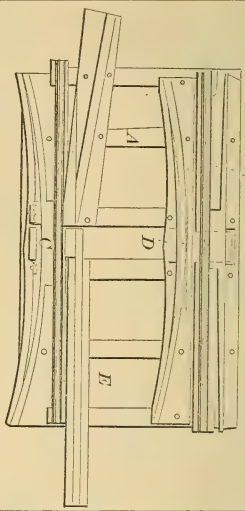
**86575**—W. Mowry—*Paper Feeding Machine.*



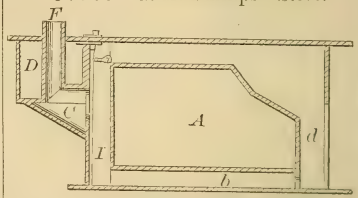
**86582**—G. Palmer—*Lock Nut.*



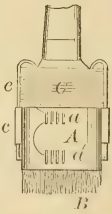
**86583**—G. Palmer—*Railway Track.*



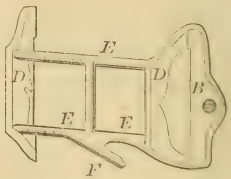
**86585**—G. H. Phillips—*Store.*



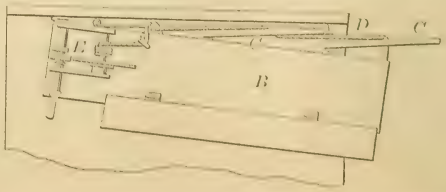
**86586**—Piper & Allen—*Paint Brush.*



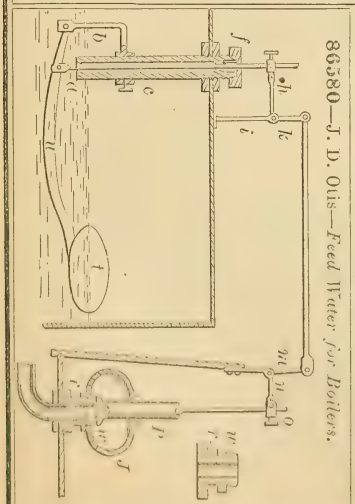
**86587**—G. Race—*Halter Hitch.*



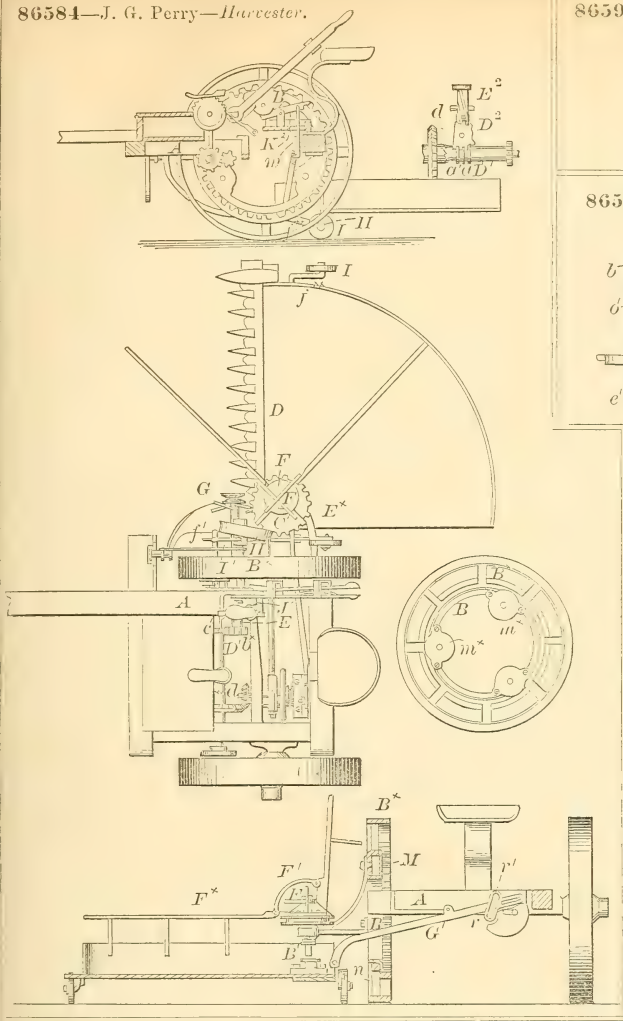
**86588**—Randall, Moore & Randall—*Shear Boom.*



**86580**—J. D. Otis—*Feed Water for Boilers.*

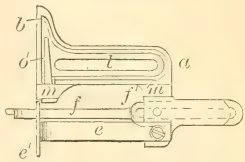


86584—J. G. Perry—*Harvester.*

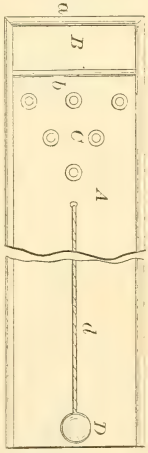


86591—T. K. Reed—*Stitch Fastening Wire.*

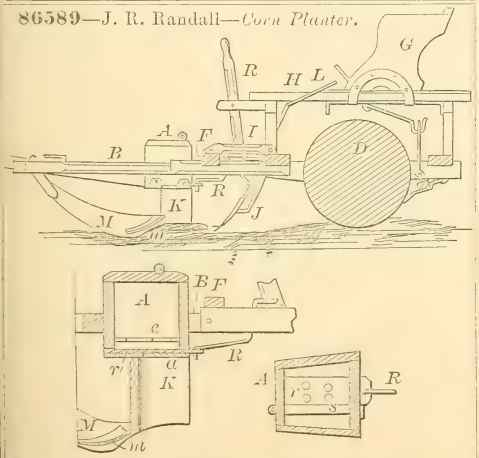
86594—P. Rodier—*Sewing Machine Gauge.*



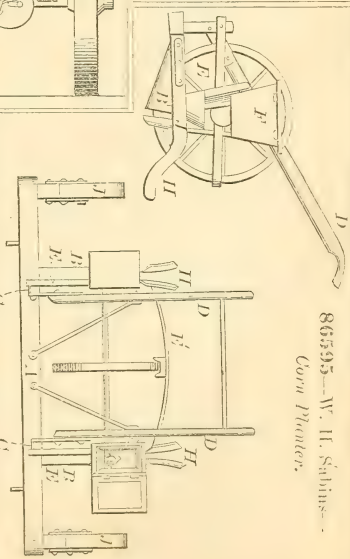
86593—C. Robinson—*Ten Pin Alley.*



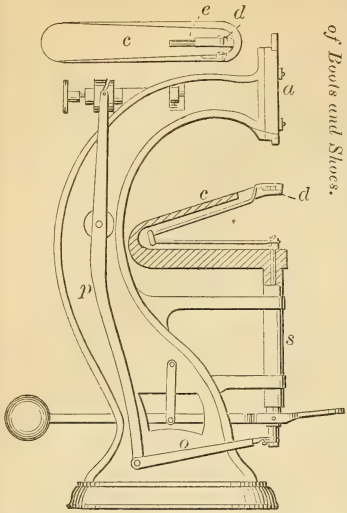
86589—J. R. Randall—*Corn Planter.*



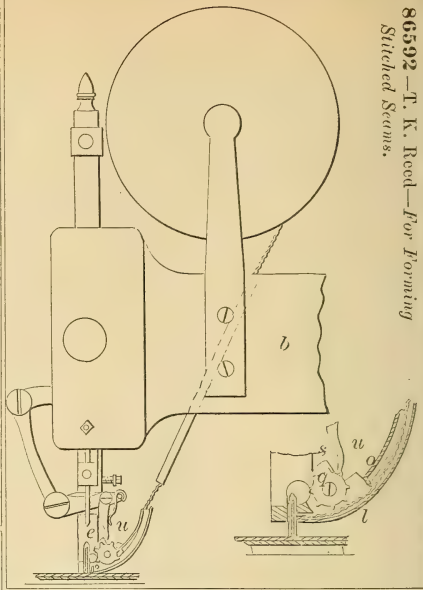
86595—W. H. Sabins—*Corn Planter.*



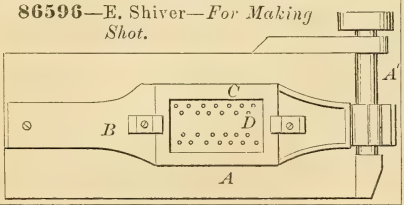
**86590**—T. K. Reed—*For Uniting the Soles and Uppers of Boots and Shoes.*



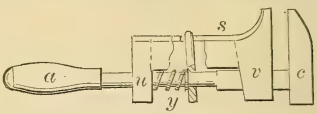

**86592**—T. K. Reed—*For Forming Stitched Seams.*



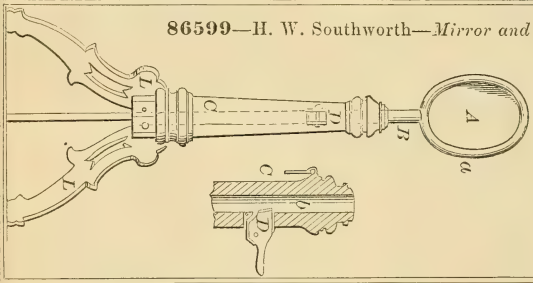

**86596**—E. Shiver—*For Making Shot.*



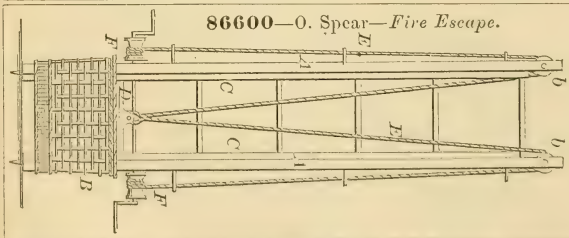

**86597**—W. H. Sible—*Wrench.*



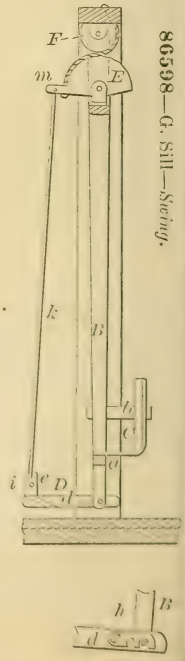

**86599**—H. W. Southworth—*Mirror and Stand.*



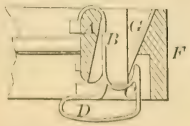

**86600**—O. Spear—*Fire Escape.*



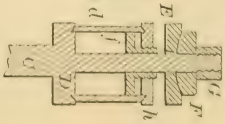

**86598**—G. Sill—*Swing.*



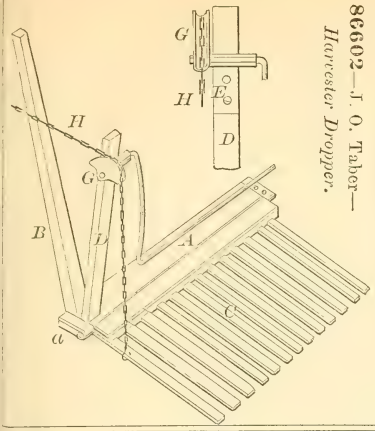

**86601**—J. W. Still—*Gate Latch.*



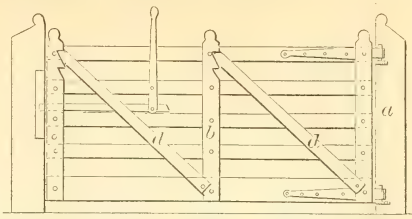

**86605**—I. P. Tice—*Moulding Machine.*



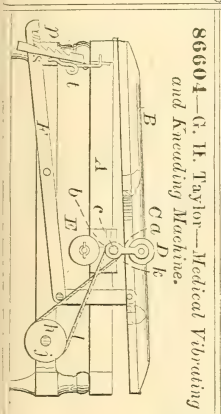
**86602**—J. O. Taber—*Harvester Dropper.*



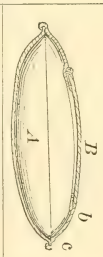

**86603**—J. Tanner—*Farm Gate.*



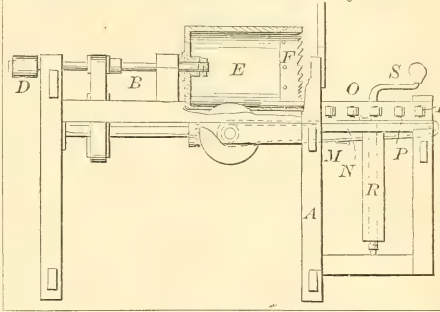

**86604**—G. H. Taylor—*Medical Vibrating and Kneading Machine.*



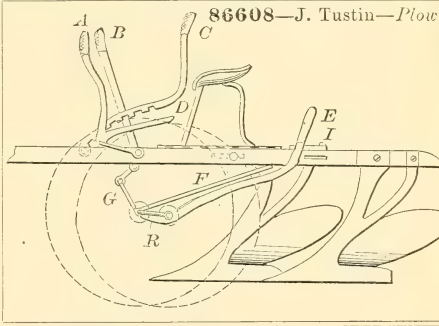

**86606**—C. Tolher, Jr.—*Tobacco Box.*



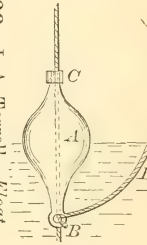

**86607**—J. W. Trout—*For Sawing Staves.*



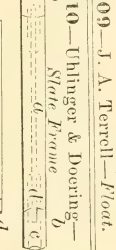

**86608**—J. Tustin—*Plow.*



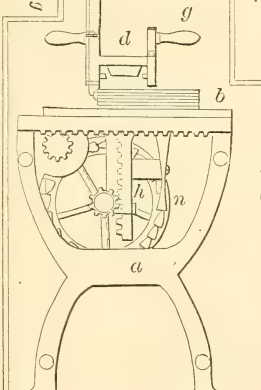

**86609**—J. A. Terrell—*Float.*



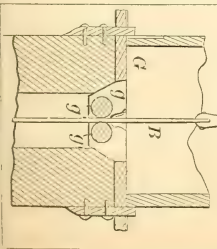

**86610**—Uhlinger & Doering—*Slate Frame.*

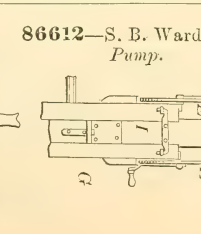



**86611**—F. L. Walker—*For Cutting up Leather Stock.*

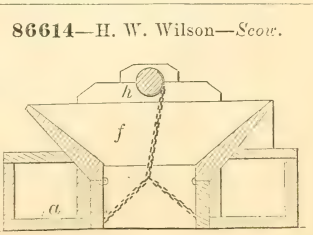



**86612**—S. B. Ward—*Pump.*

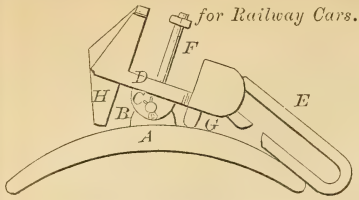


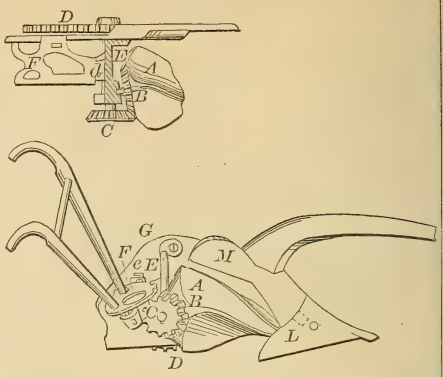

**86614**—H. W. Wilson—*Scow.*



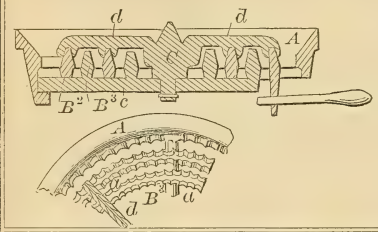
**86613**—W. Wilmore—*Brake Block for Railway Cars.*



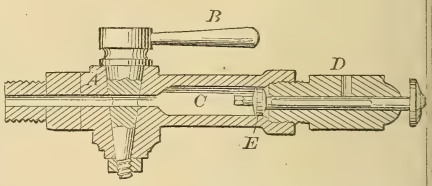

**86615**—G. A. Wing—*Plow.*



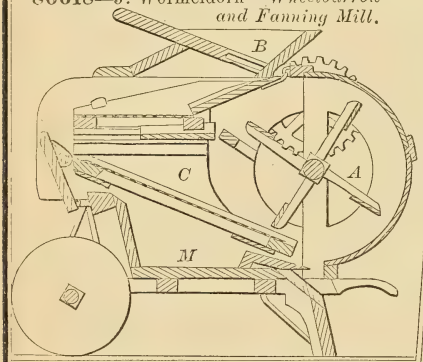

**86616**—G. A. Wing—*Stove Grate.*



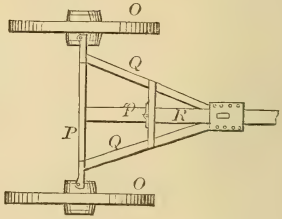

**86617**—G. W. Wiswell—*Stop Valve for Steam Generators.*

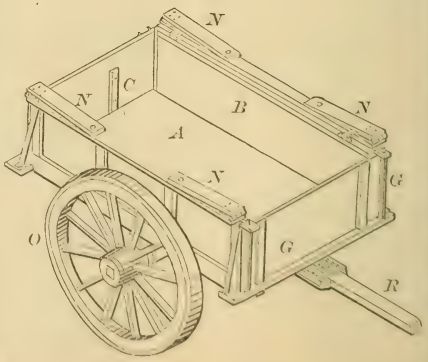



**86618**—J. Wormeldorff—*Wheelbarrow and Fanning Mill.*

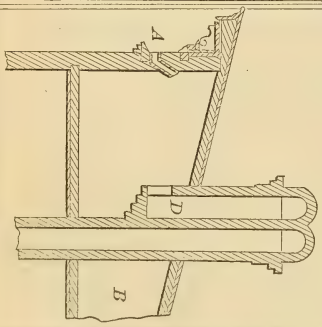



**86619**—M. S. Woodbury—*Ox Cart.*

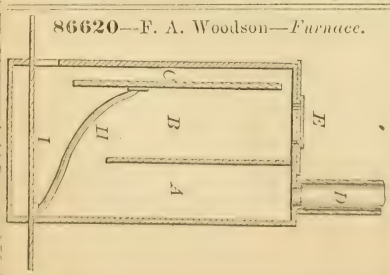


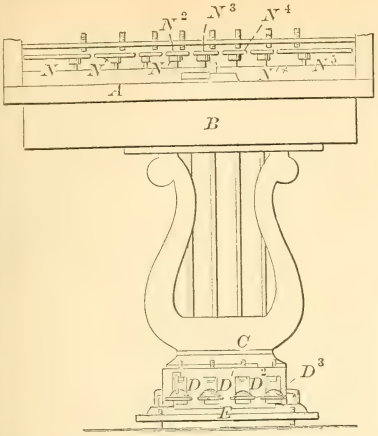

**86622**—G. J. Zimmerman—*Ventilator.*

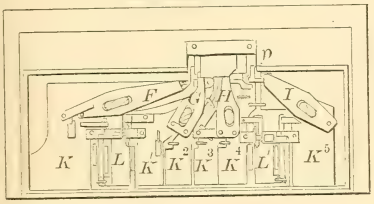


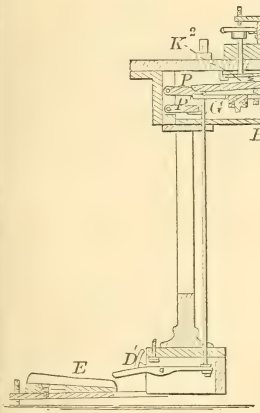

**86620**—F. A. Woodson—*Furnace.*



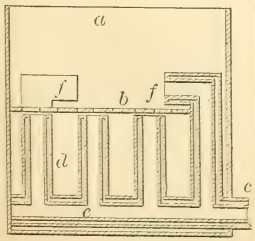
**86621**—E. Zachariae—*Piano Pedal.*



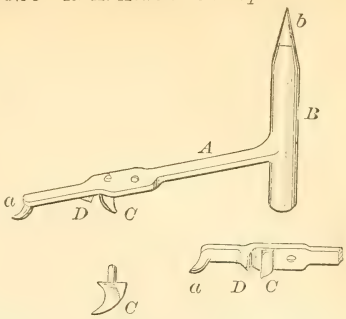



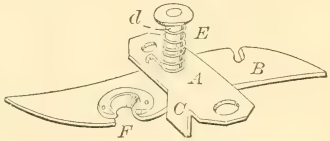

**86625**—C. E. Ashcroft—*Dryer.*



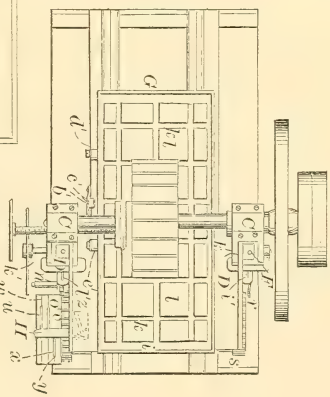

**86626**—R. H. Atwell—*Can Opener.*

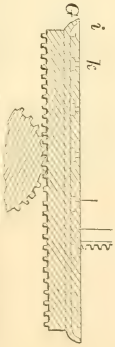


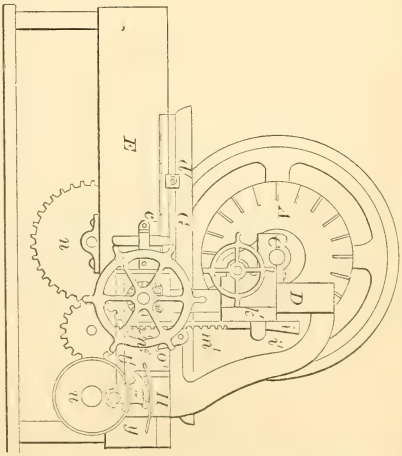

**86628**—J. M. Barnaby—*Blind Fastener.*



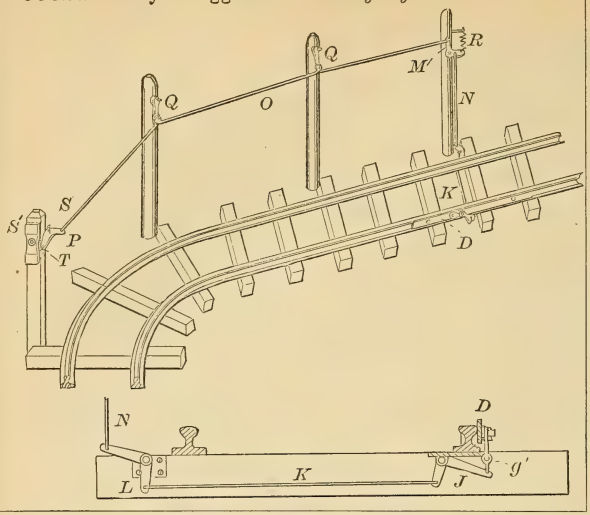

**86623**—J. R. Abbe—*Cutting Stone.*



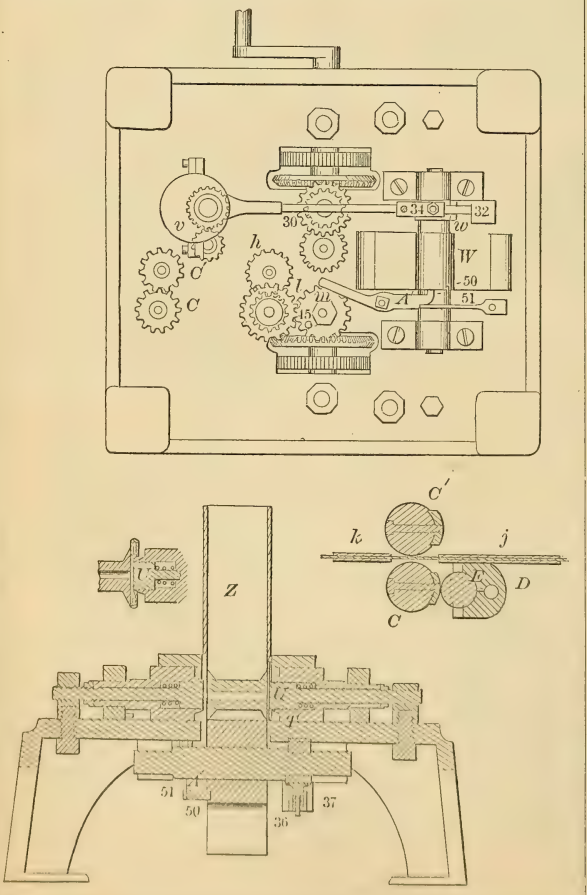


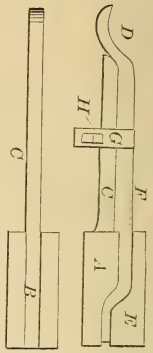
**86624**—Akley & Coggeshall—*Railway Signal.*



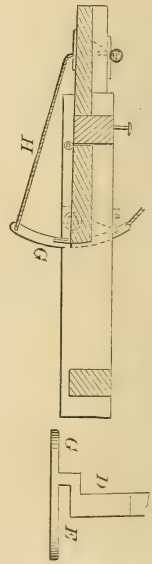

**86627**—Q. S. Backus—*For Attaching Labels to Spools.*



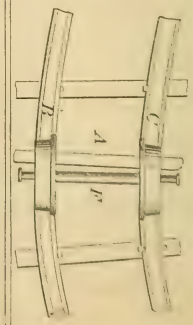

**86629**—A. E. Barnard—*Die for Bending Equalizing Bars.*



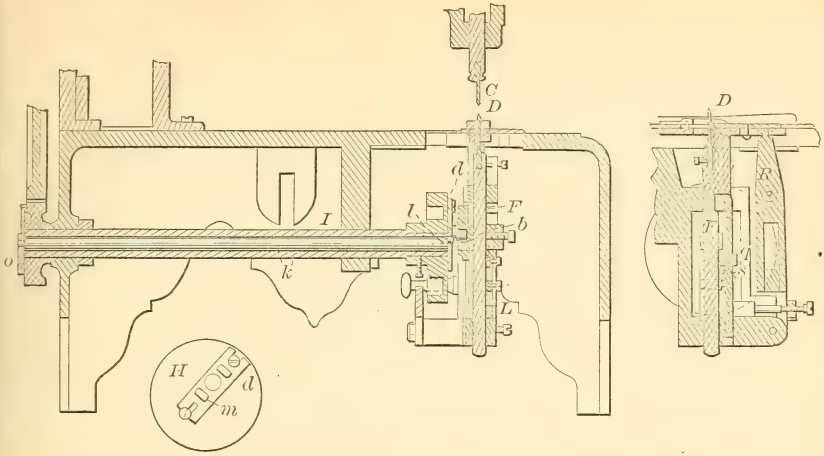

**86630**—E. Bascom—*For Opening and Closing Window Blinds.*



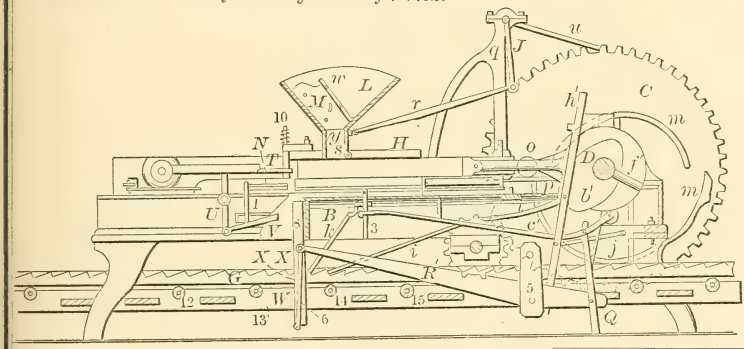

**86631**—V. D. Beach—*Railway Curve.*

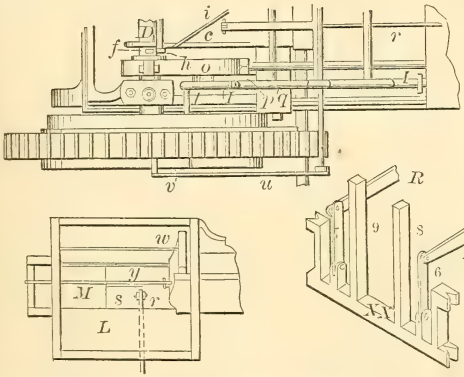


**86632**—E. E. Bean—*For Sewing Leather.*

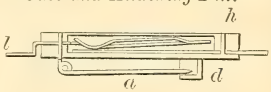


**86633**—B. D. Berry—*Manufacture of Brick.*

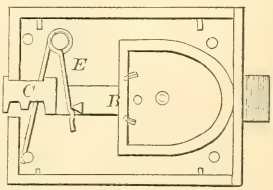




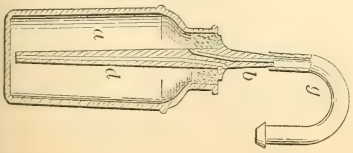
**86637**—W. L. Bowser—*Blade Case and Attaching Pin.*



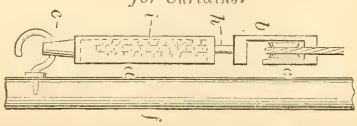
**86641**—H. & S. W. Budd—*Latch.*



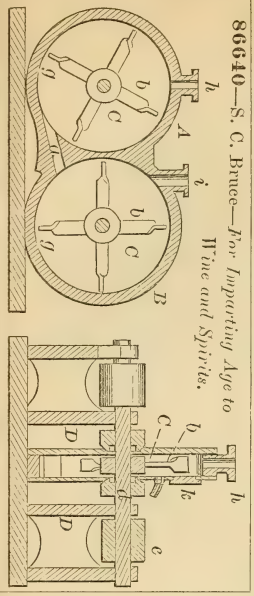
**86638**—J. P. Brower—*Inhaler for Medical Purposes.*



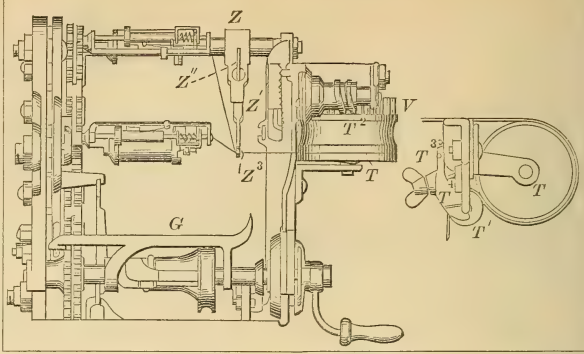
**86634**—W. H. Betts—*Cord Tightener for Curtains.*



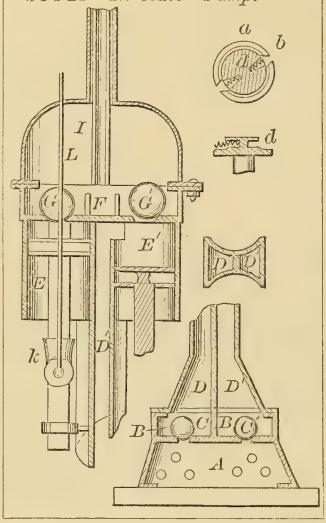
**86640**—S. C. Bruce—*For Imparting Age to Wine and Spirits.*



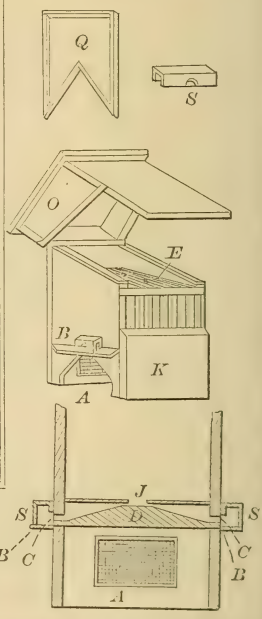
**86642**—J. D. Butler—*Braiding Machine.*



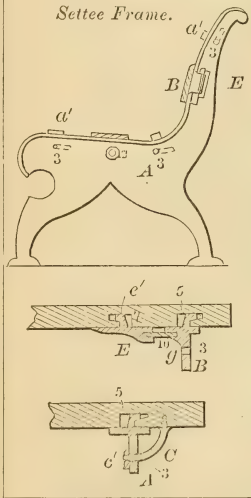
**86645**—N. Clute—*Pump.*



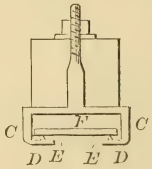
**86643**—J. A. Cameron—*Beehive.*



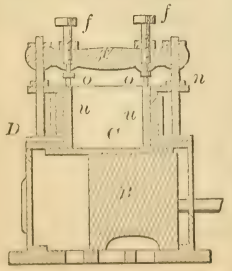
**86644**—T. J. Close—*Settee Frame.*



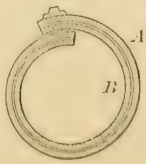
**86648**—H. Crowell—*Wagon Brake Block.*



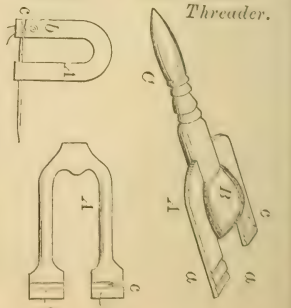
**86650**—Davis & McGill—*Slide Valve.*



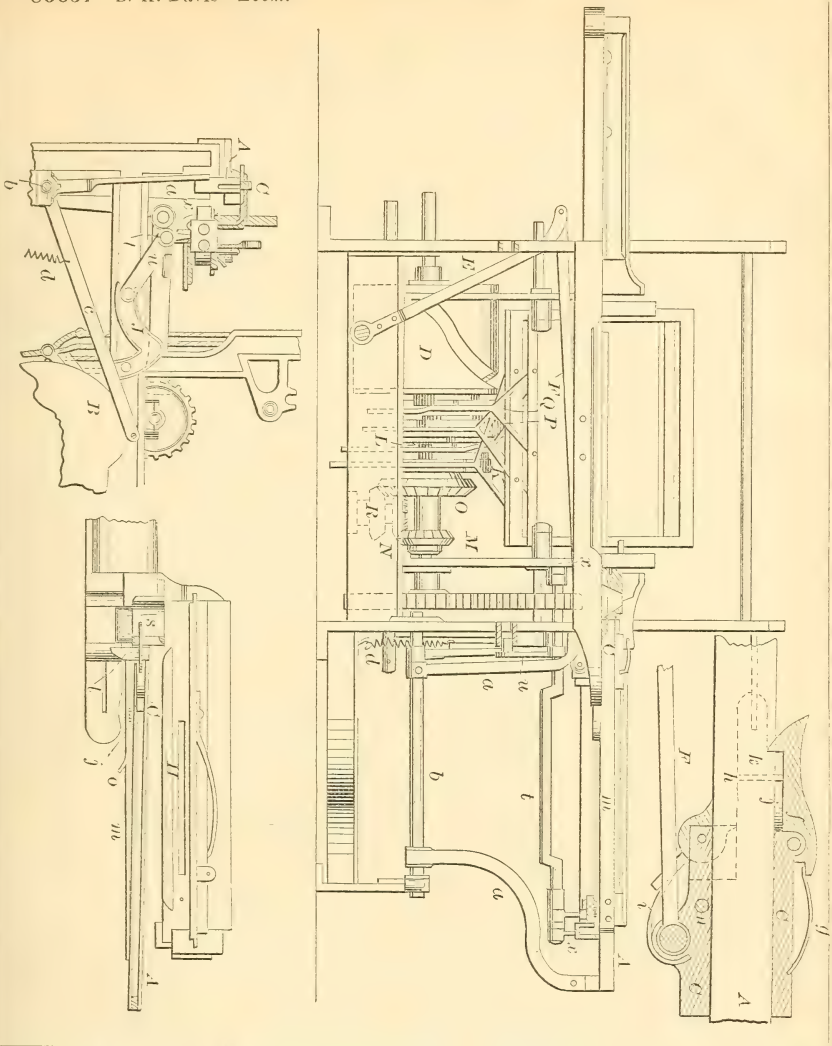
**86652**—J. Davis—*Hose.*



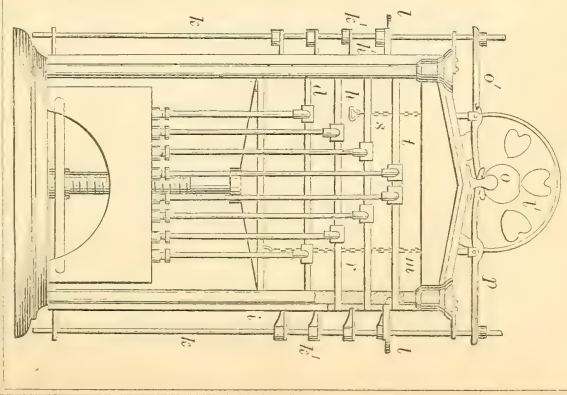
**86647**—O. Cox—*Needle Threader.*



**86651**—E. K. Davis—*Loom.*



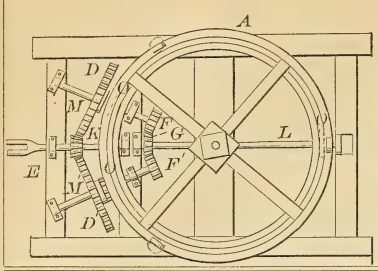
**86654**—W. Dobbins—*Steam Press.*

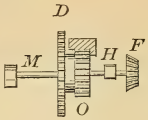


**86655**—J. W. Dryer—*Mould for Casting Sleigh Shoes.*

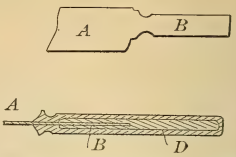
**86653**—A. D. Ditmars—*Razor Strop.*

**86656**—Eberly, Lutz & Becker—*Horse Power.*

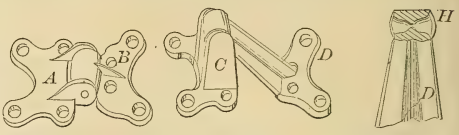



**86657**—J. O. Ely—*Knife.*

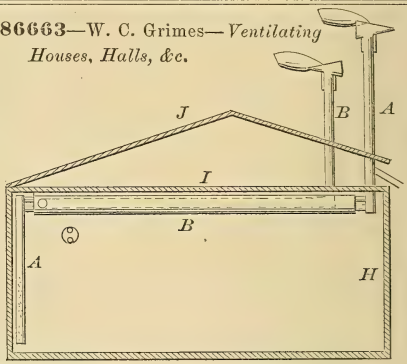



**86658**—J. B. Farmer—*Gate Hinge.*

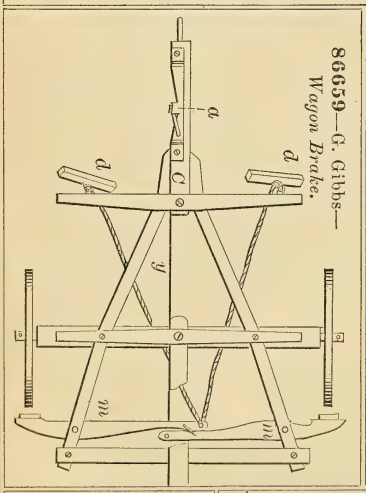



**86662**—Grace & Elliott—*For Preventing Horses from Kicking.*

**86663**—W. C. Grimes—*Ventilating Houses, Halls, &c.*

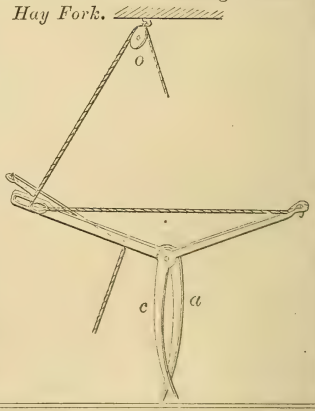



**86659**—G. Gibbs—*Wagon Brake.*

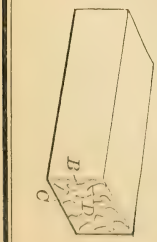


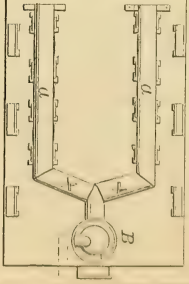

**86660**—W. T. Gillinder—*Lamp Chimney.*

**86661**—B. F. Gladding—*Horse Hay Fork.*

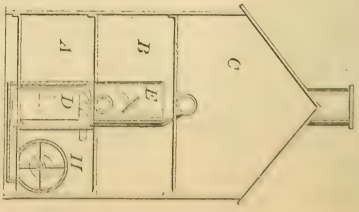



**86664**—J. Grimm—*Bridle.*

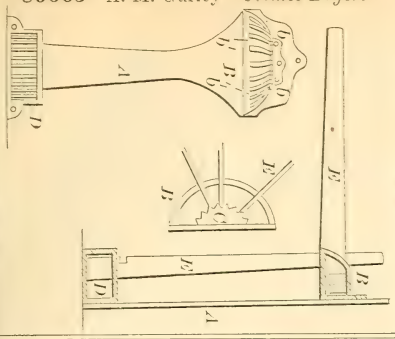


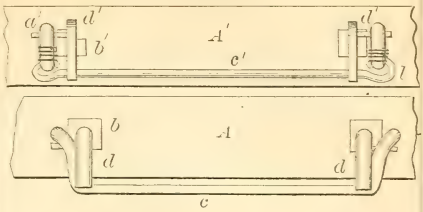

**86666**—A. E. Harding—*For Drying Paper.*

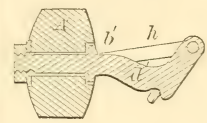


**86665**—A. M. Gurley—*Clothes Dryer.*

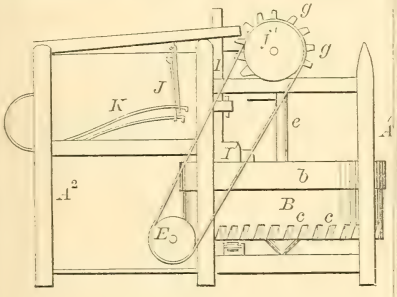


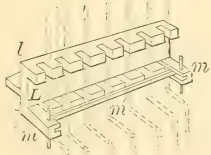
**86668**—W. A. Hastings—*Shuttle Guide for Looms.*

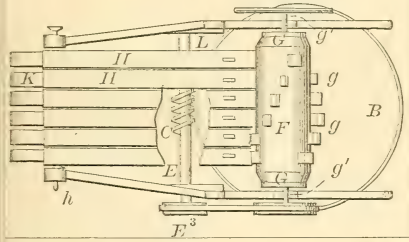




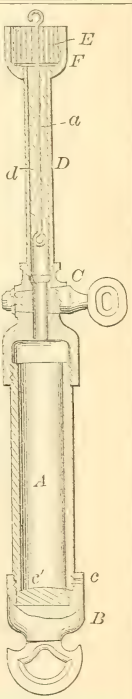
**86669**—Hetzel & Hager—*Meat Cutter.*



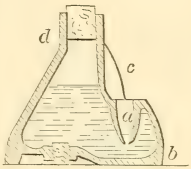




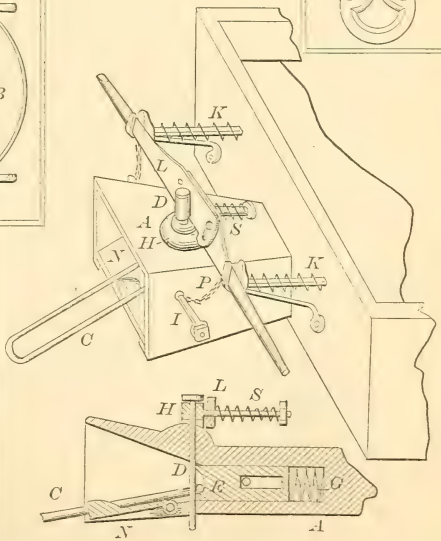
**86667**—A. T. Harrison—*Torch and Fire Kindler.*



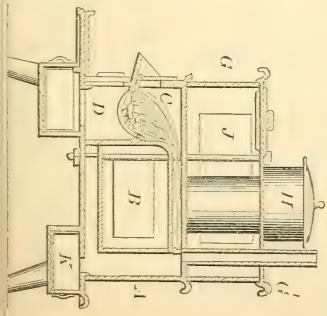
**86670**—G. G. Hickman—*Inkstand.*



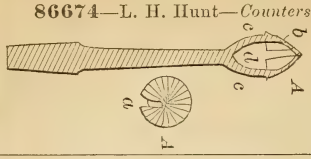
**86673**—H. R. Howe—*Car Coupling.*



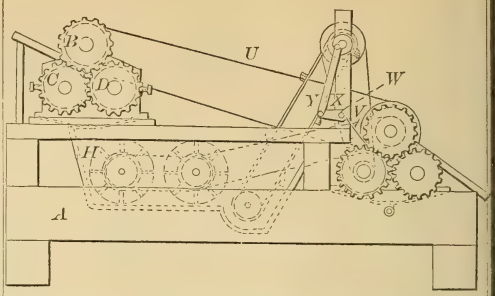
**86671**—M. Holdener—*Stove.*



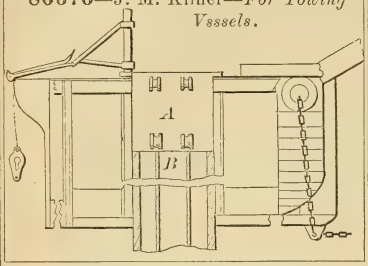
**86674**—L. H. Hunt—*Countersink.*



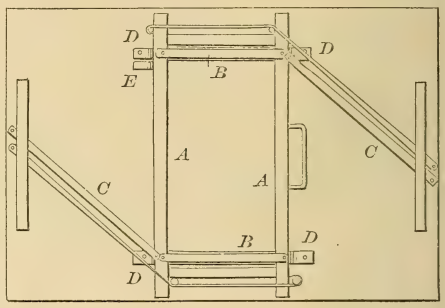
**86675**—B. Irving—*Bark Mill.*

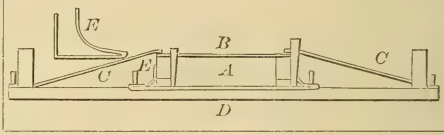


**86676**—J. M. Kilner—*For Towing Vessels.*

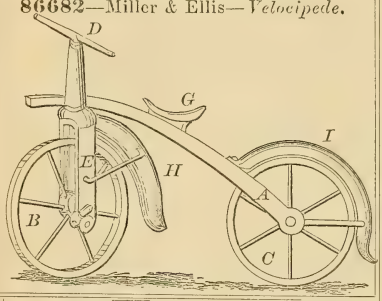


**86677**—R. Knott—*For Confining Horse Powers.*

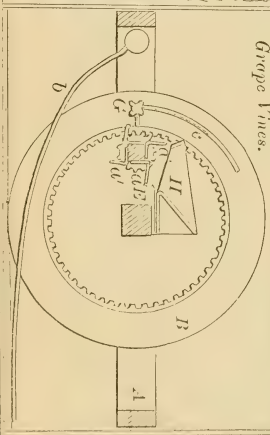




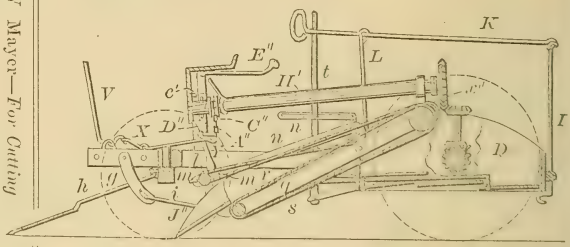
**86682**—Miller & Ellis—*Velocipede.*



**86681**—L. W. Mayer—*For Cutting Grape Vines.*

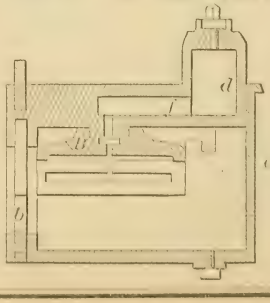


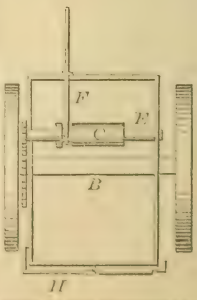
**86678**—J. Lee—*Excavator.*



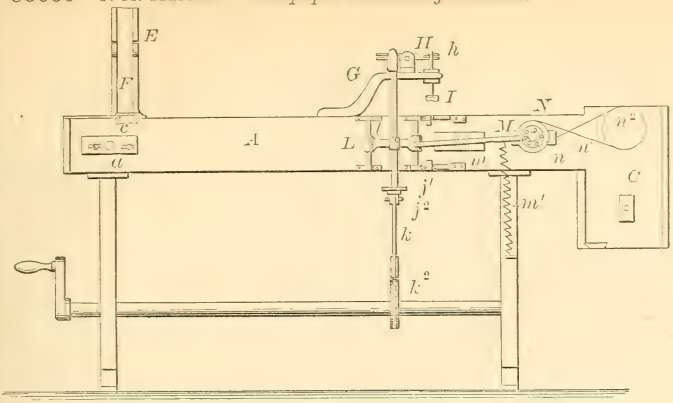
**86683**—W. T. Munger—*Attaching Knobs to Spindles.*

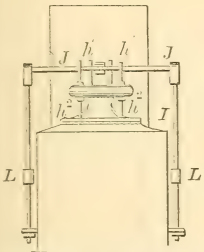
**86679**—J. S. Lister—*Axle Box.*

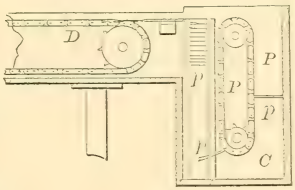


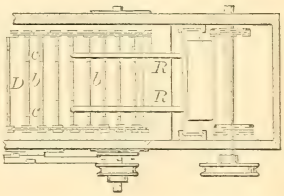


**86680**—C. K. Marshall—*Newspaper Addressing Machine.*

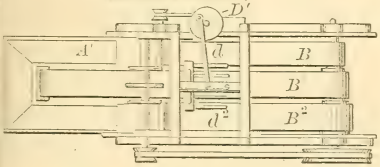


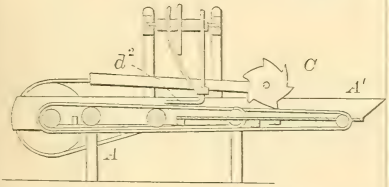



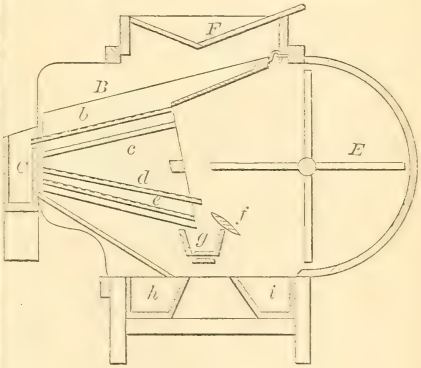




**86684**—W. Ostermeyer—*Threshing Machine Feeder.*

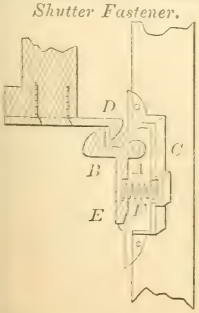


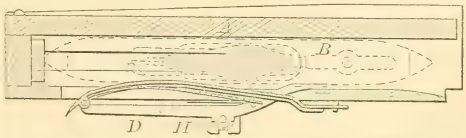

**86687**—A. W. Powers—*Grain Separator.*



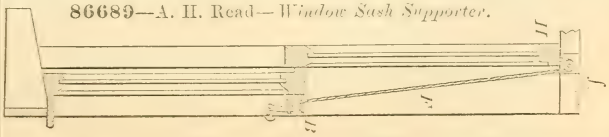

**86686**—J. H. Petersen—*Shutter Fastener.*



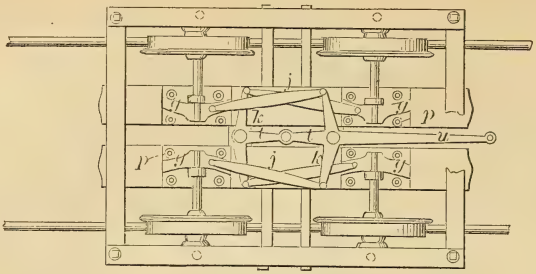

**86688**—E. Prentice—*Shuttle Binder for Looms.*

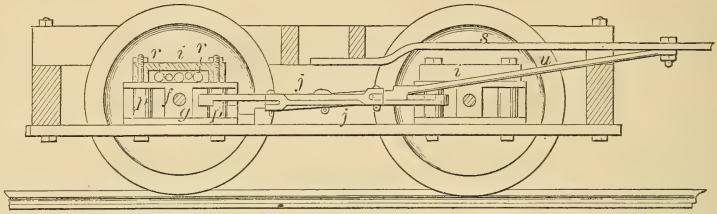


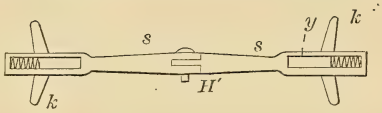

**86689**—A. H. Read—*Window Sash Supporter.*



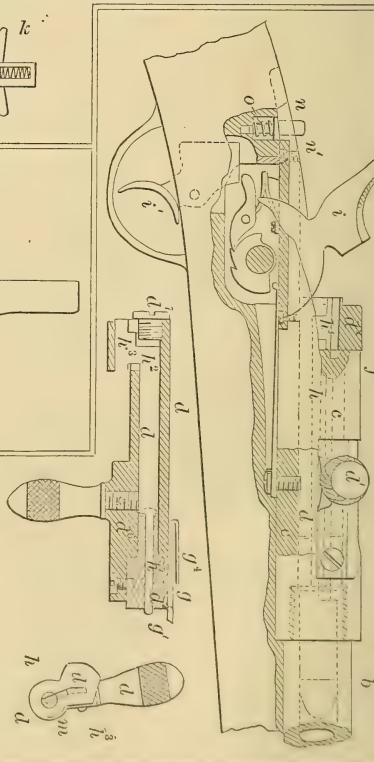
**86685**—J. R., D. W. & J. Perry—*Railroad Car.*



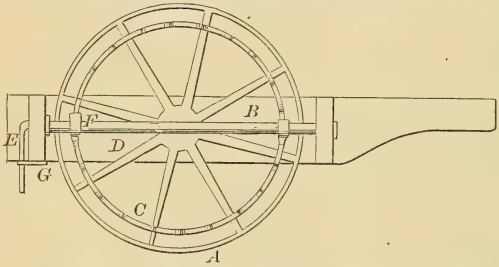




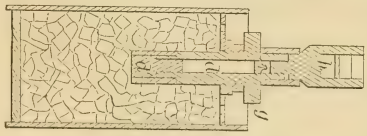
**86690**—S. Remington—*Fire Arm.*



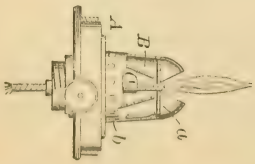
**86692**—E O. Rood—*Mechanical Movement.*



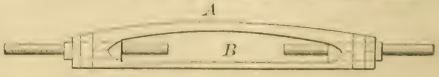
**86691**—E. A. L. Roberts—*Torpedo.*



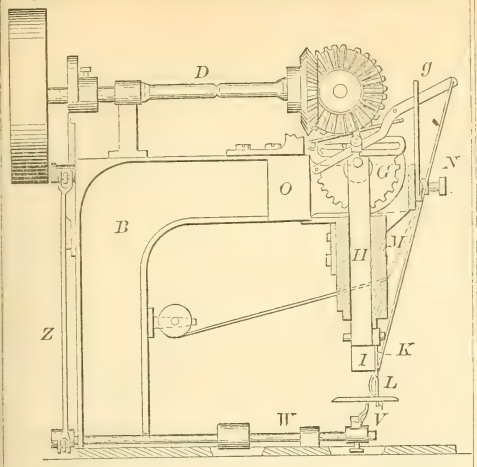
**86694**—D. E. Rugg—*Lamp Burner.*



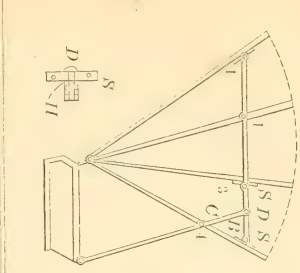
**86693**—J. A. C. Ruffner—*Carriage Axle.*



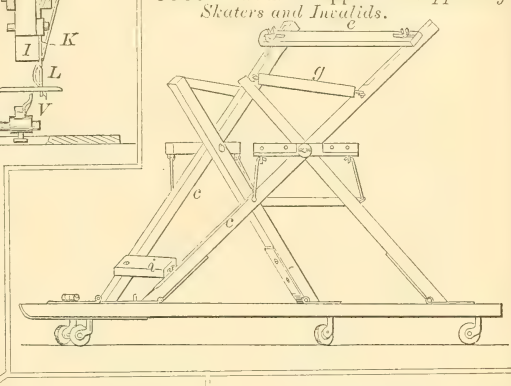
**86695**—W. W. Russell—*For Sewing Leather.*

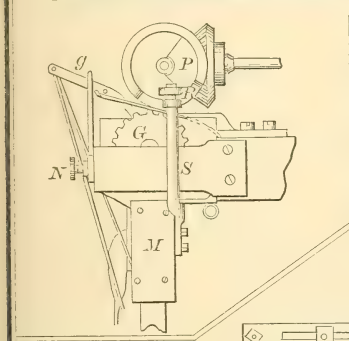



**86697**—Saladee & Bauder—*Top Iron and Prop for Carriages.*

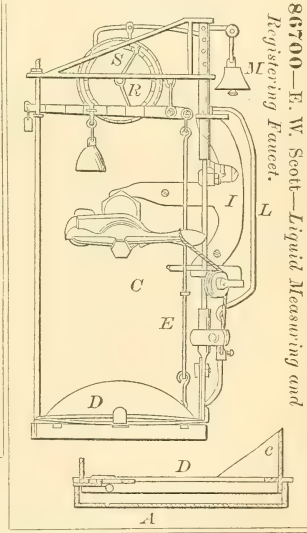



**86699**—P. I. Schopp—*For Supporting Skaters and Invalids.*

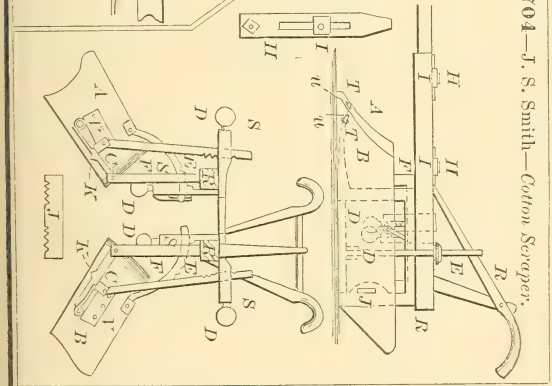


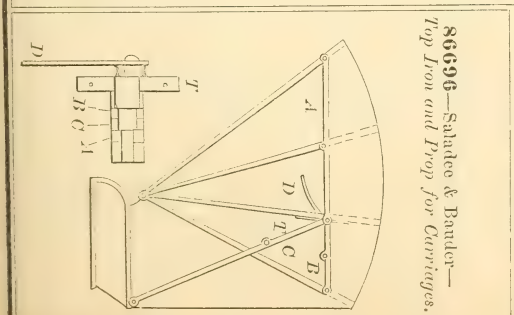

**86700**—E. W. Scott—*Liquid Measuring and Registering Faucet.*



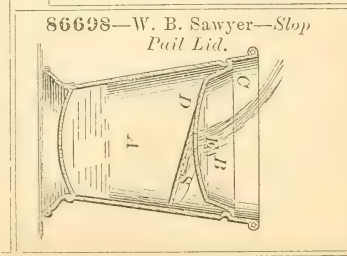

**86704**—J. S. Smith—*Cotton Scraper.*



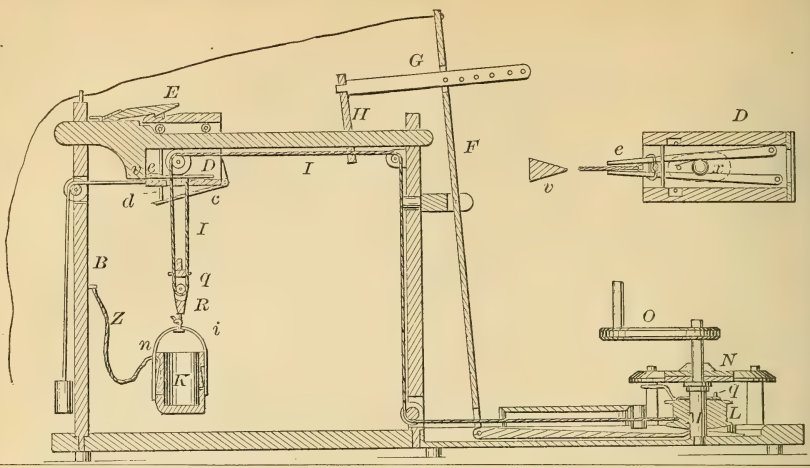

**86696**—Saladee & Bauder—*Top Iron and Prop for Carriages.*



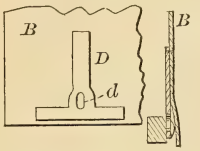

**86698**—W. B. Sawyer—*Slop Pail Lid.*



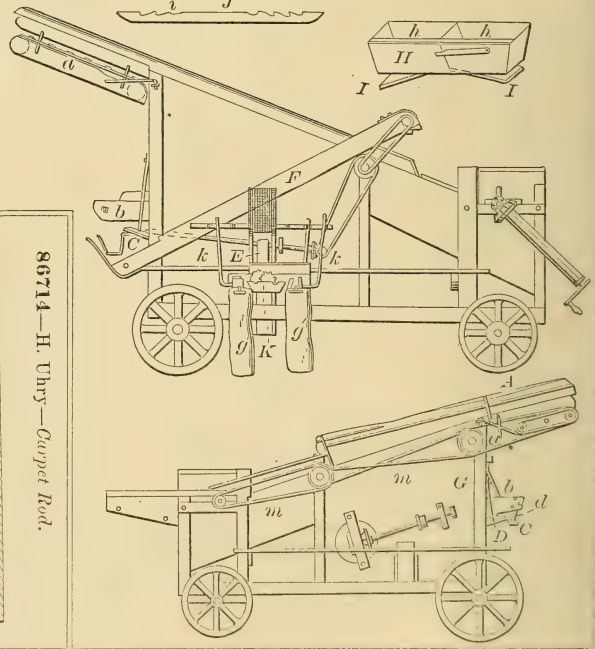
**86703**—Shoemaker & Gearhart—*Elevator.*



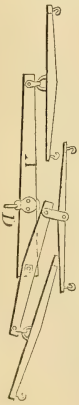

**86706**—J. H. Spencer—*Carriage Curtain.*




**86707**—I. Starr—*Threshing Machine.*

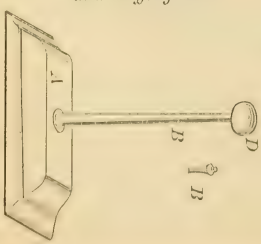



**86708**—I. Starr—*Draught Equalizer.*

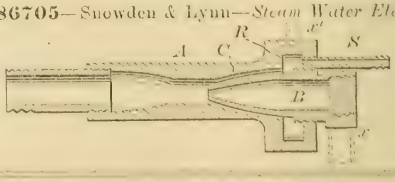



**86714**—H. Uhry—*Carpet Rod.*

**86711**—A. M. Thorne—*Fluting and Puffing Iron.*

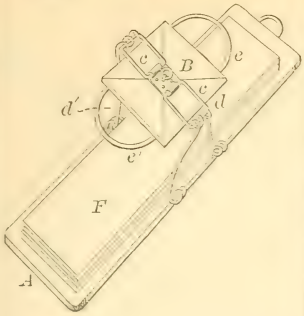



**86705**—Snowden & Lynn—*Steam Water Elevator.*

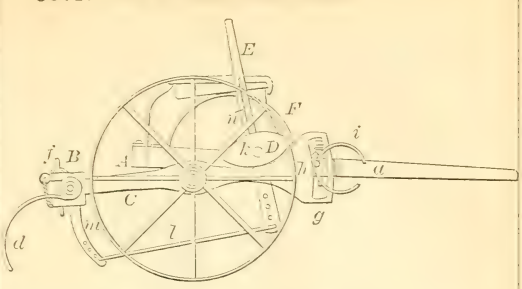



**86709**—C. S. Stearns—*Carriage Wheel.*

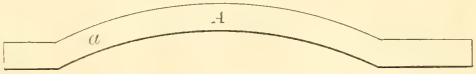
**86712**—Tirrell & Brett—*Paper File.*



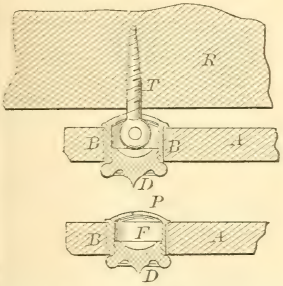

**86717**—M. N. Ward—*Horse Rake.*



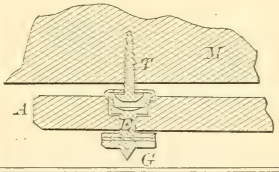

**86713**—S. Trent—*Volute Spring.*

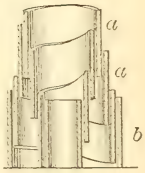



**86716**—H. Uhry—*Stair Rod.*

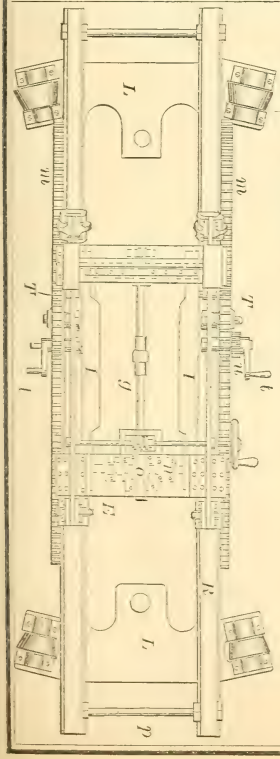



**86715**—H. Uhry—*Stair Rod.*

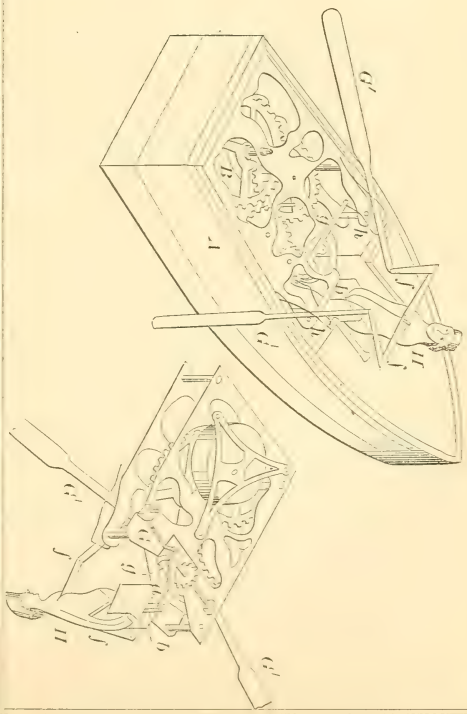


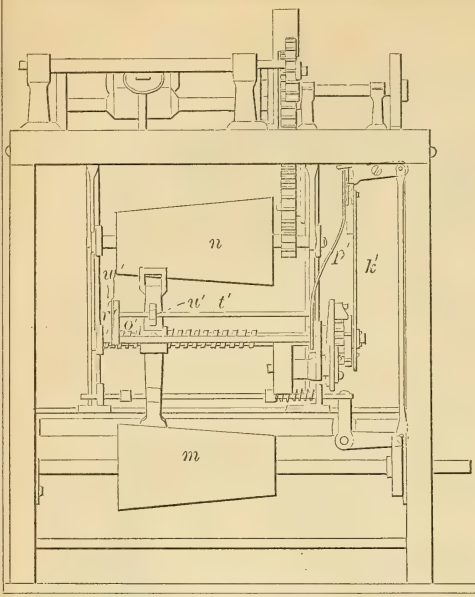

**86720**—G. R. Wilson—*Gun Carriage.*

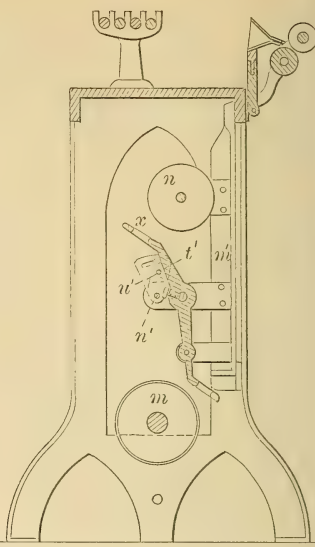



**86718**—N. S. Warner—*Toy Row Boat.*

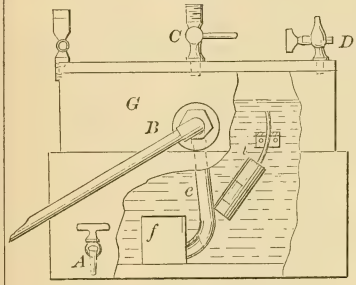


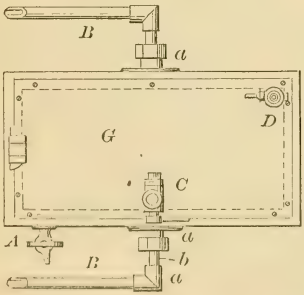
**86719**—S. J. Whitton—*Regulator for Drawing Frames.*



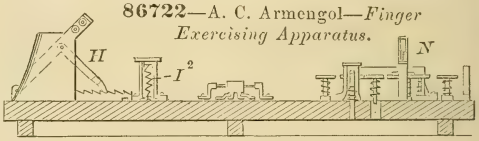



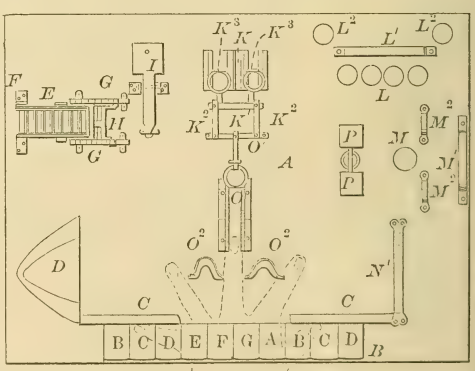

**86721**—J. Alcorn—*Bottle Filling Machine.*



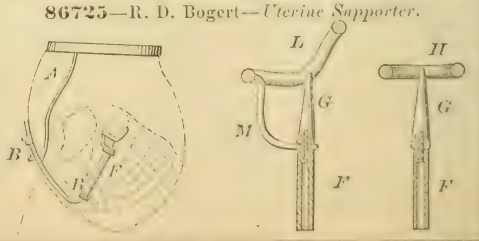

**86722**—A. C. Armengol—*Finger Exercising Apparatus.*



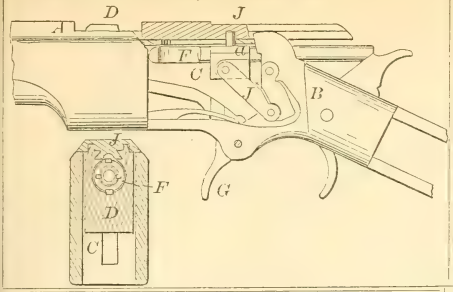




**86726**—E. Bourne—*Rivet.*

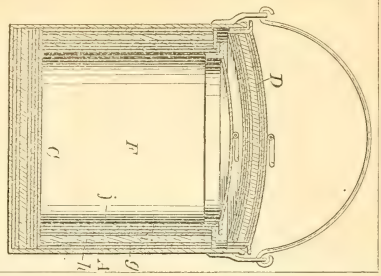
**86725**—R. D. Bogert—*Uterine Supporter.*



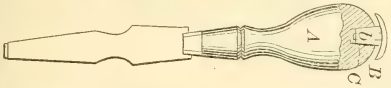
**86723**—S. G. Bayes—*Fire Arm.*



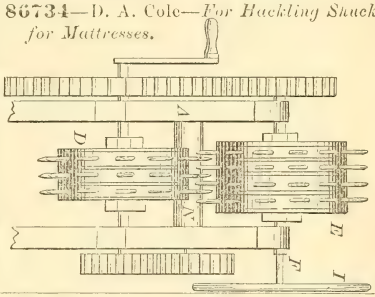
**86727**—J. C. Brain—*Heat Retaining Pail.*



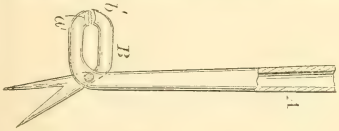
**86724**—E. S. Bitner—*Screw Driver Handle.*



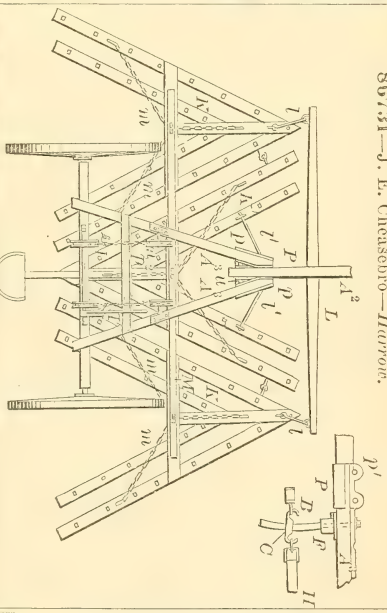
**86734**—D. A. Cole—*For Hackling Shucks for Maitresses.*



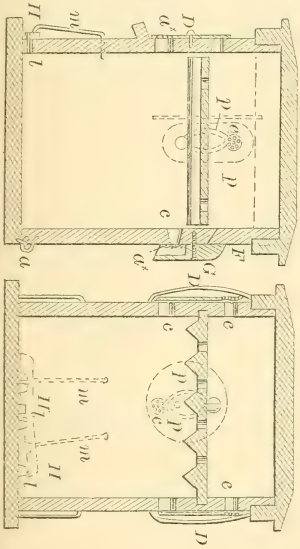
**86728**—W. Brown—*Carpet Stretcher.*



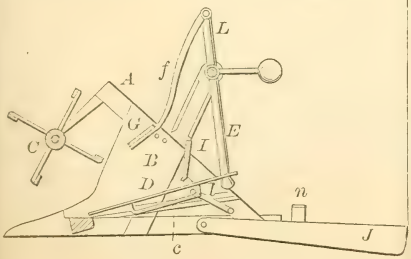
**86731**—J. E. Cheasebro—*Harrow.*



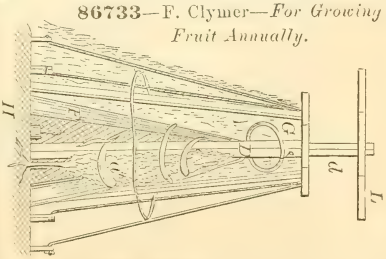
**86729**—R. P. Buttles—*Bedstead.*



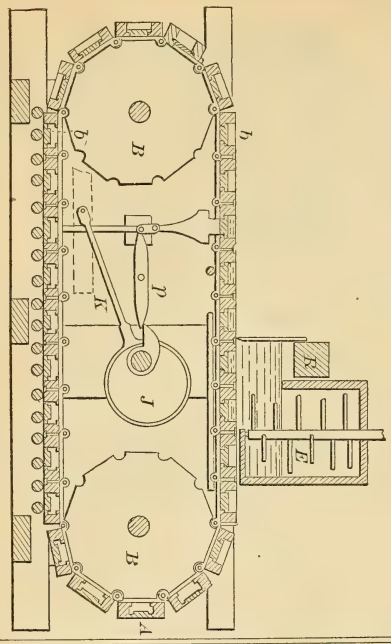
**86730**—J. Case—*Harvester Dropper.*



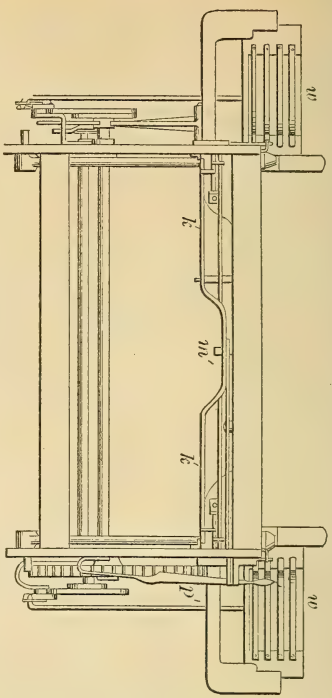
**86733**—F. Clymer—*For Growing Fruit Annually.*



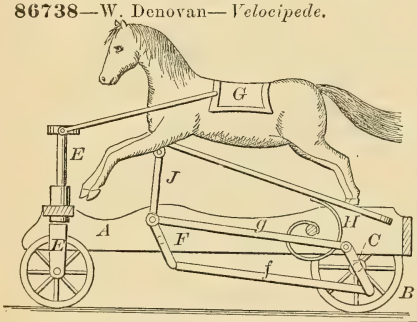
**86732**—P. Clark—*Brick Machine.*



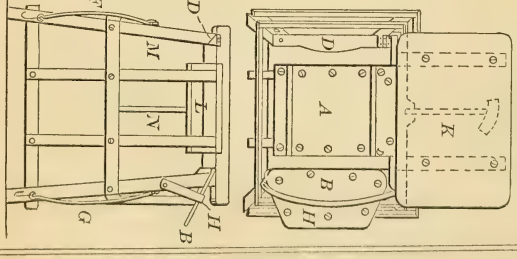

**86735**—G. Crompton—*Stopping Mechanism for Looms.*



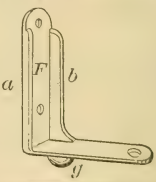

**86738**—W. Denovan—*Velocipede.*



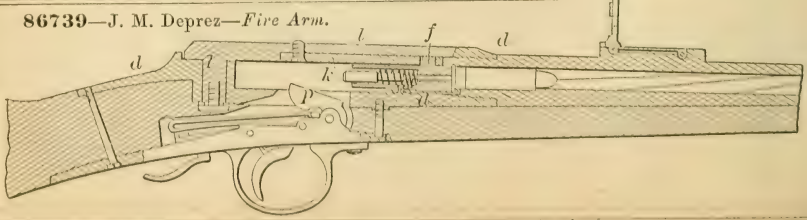

**86736**—J. E. Daniels—*Sheep Shearing Table.*



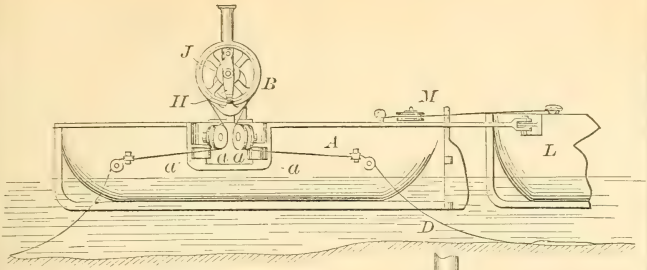

**86742**—F. Fischbeck—*Shield for Traveling Bags.*

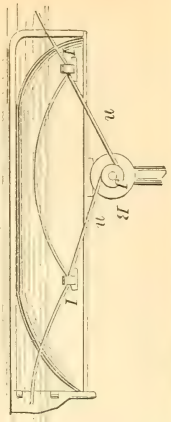


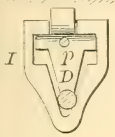

**86739**—J. M. Deprez—*Fire Arm.*

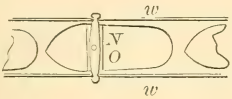


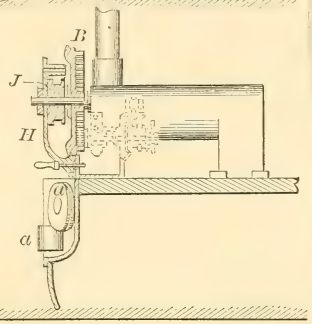
**86737**—Mesnil & Eyth—*Propelling Vessels on Canals.*



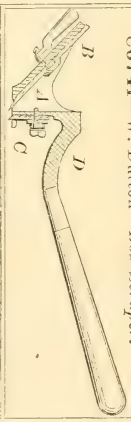



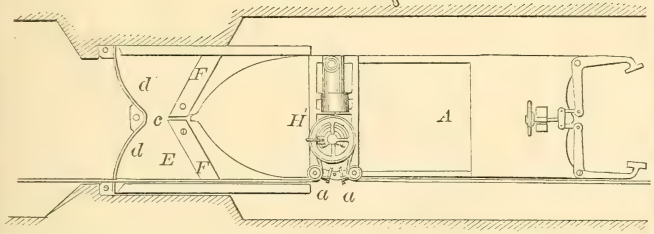



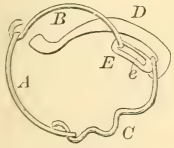




**86741**—W. Dutton—*Box Scraper.*

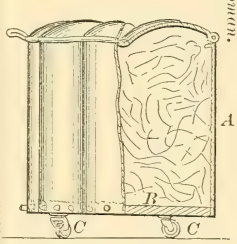


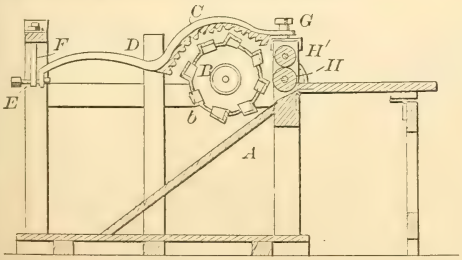

**86745**—L. H. Gano—*Bag Tie.*



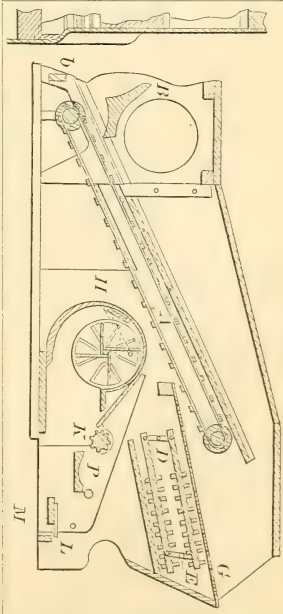

**86744**—A. O. & E. G. Ganiard—*Ottoman.*



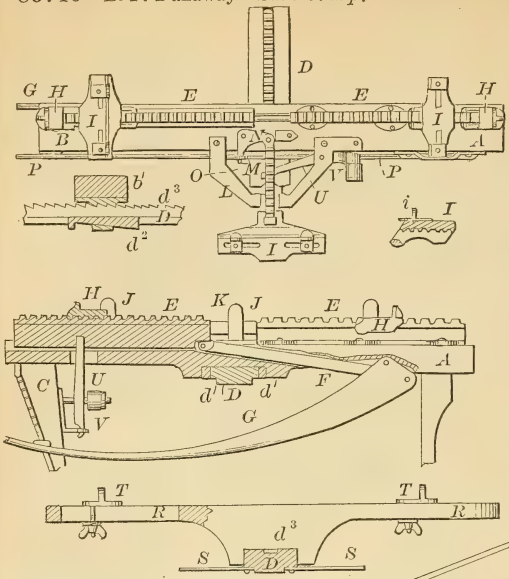

**86743**—M. Fuos—*Threshing Machine.*



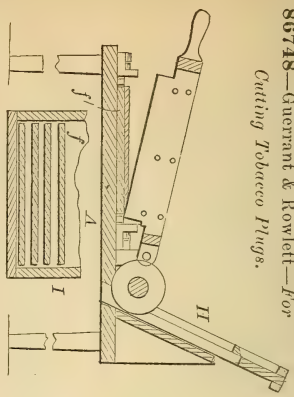

**86746**—Garver & Bikle—*Threshing Machine.*



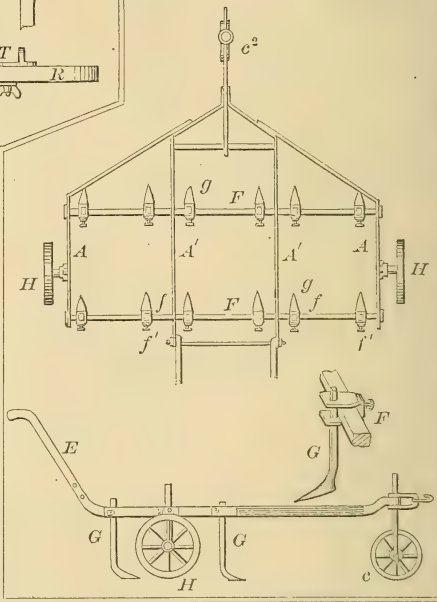
**86740**—E. F. Dunaway—*Sash Clamp.*



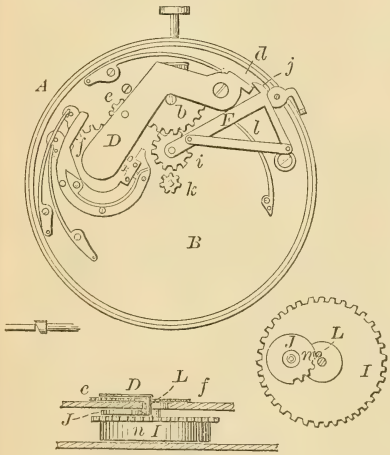
**86748**—Guerrant & Rowlett—*For Cutting Tobacco Plugs.*



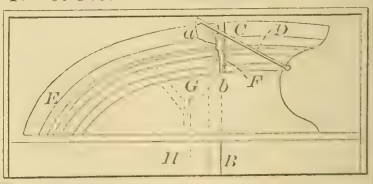
**86750**—T. Hicks—*Cultivator.*

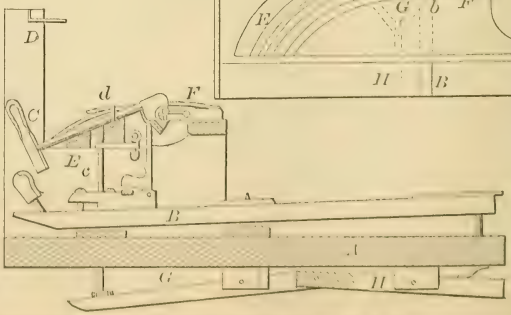


**86751**—V. Himmer—*Watch.*

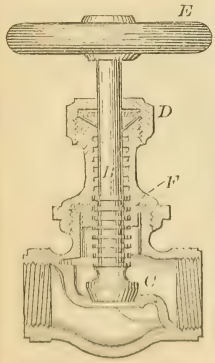


**86747**—J. Greener—*Piano Forte.*

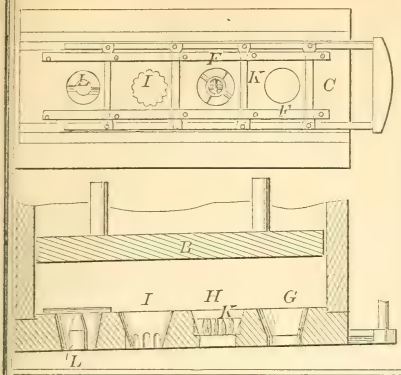




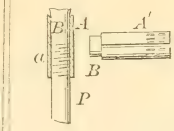
**86749**—H. H. Hendrick—*Globe Valve.*



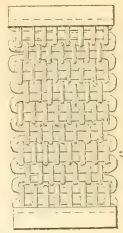
**86752**—D. M. Holmes—*Cake Machine.*



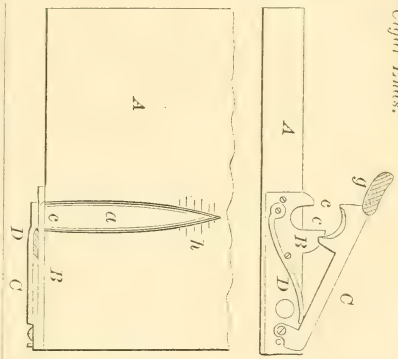

**86753**—G. L. Holt—*Attaching Erasers to Pencils.*



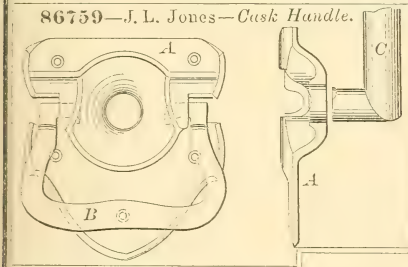

**86755**—G. & D. Hurn—*Machine Belting.*



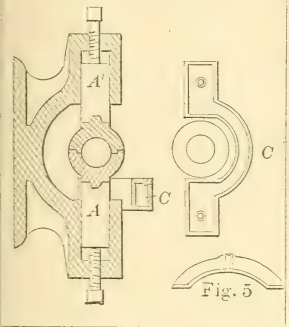
**86764**—P. A. La France—*For Trimming Cigar Ends.*



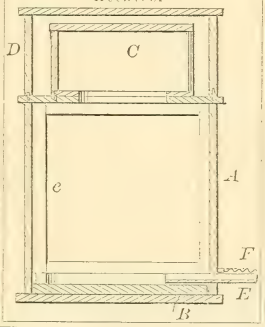

**86759**—J. L. Jones—*Cask Handle.*



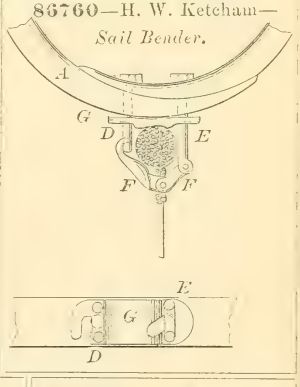

**86761**—C. C. Klein—*Oil Cup*



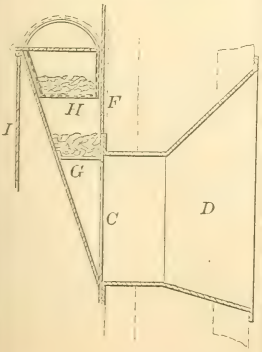

**86765**—A. S. Layton—*Beehive.*



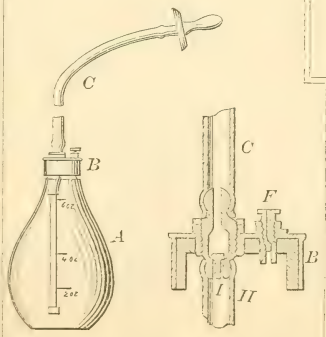

**86760**—H. W. Ketcham—*Sail Bender.*



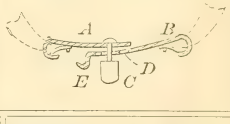

**86766**—J. Lesperance—*Railroad Car Ventilator.*



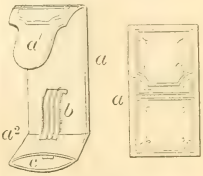

**86762**—A. M. Knapp—*Nursing Bottle.*



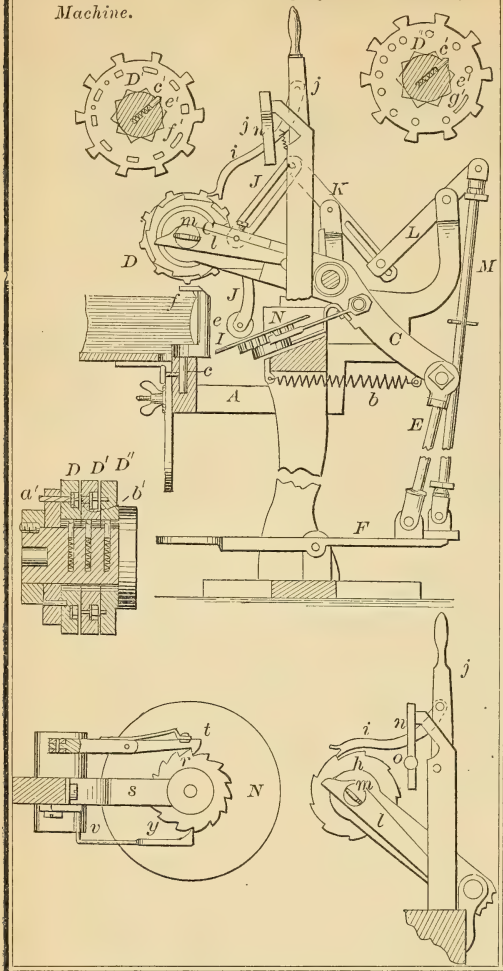

**86756**—J. V. Hutschler—*Hames Fastener.*



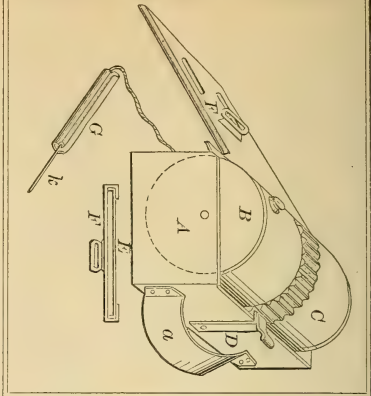

**86757**—C. B. James—*Needle Wrapper.*



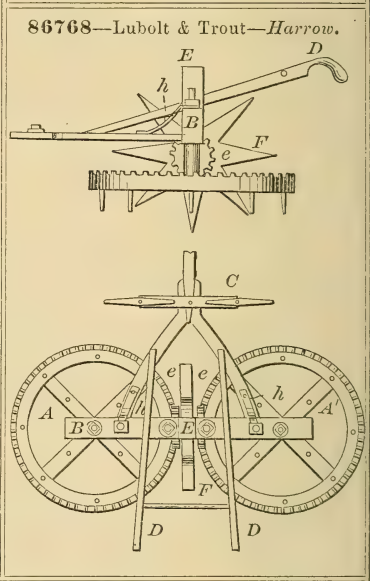
**86763**—Koch & Schüle—*Paging and Numbering Machine.*



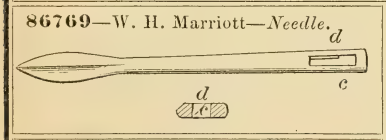
**86767**—J. W. Lowe—*Fire Kindler.*



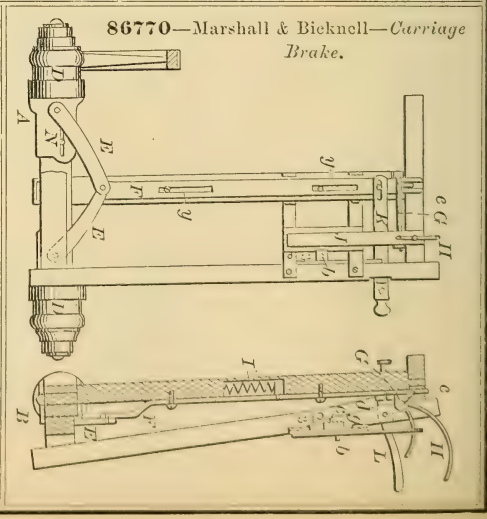
**86768**—Lubolt & Trout—*Harrow.*



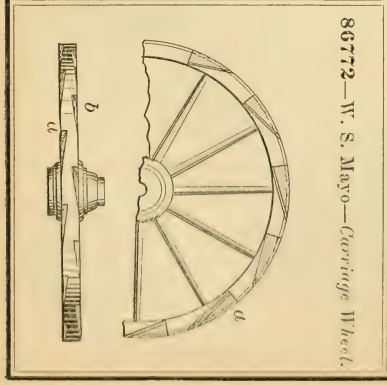
**86769**—W. H. Marriott—*Needle.*



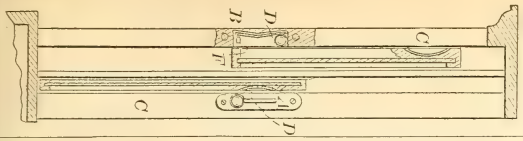
**86770**—Marshall & Bicknell—*Carriage Brake.*



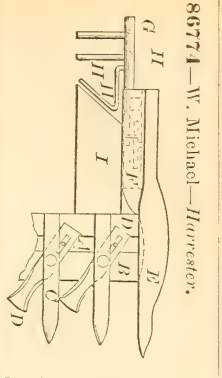
**86772**—W. S. Mayo—*Carriage Wheel.*



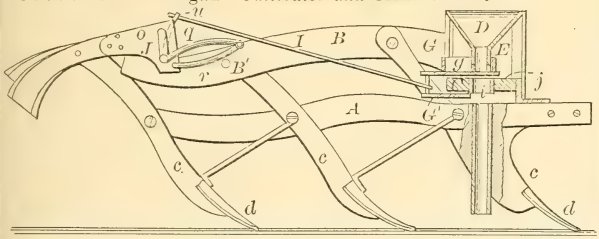
**86773**—W. L. McKibbin—*Sash Lock.*



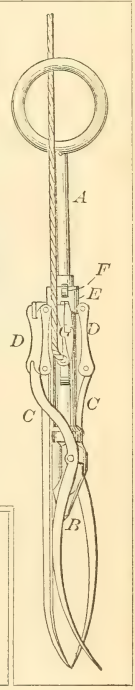
**86774**—W. Michael—*Harvester.*



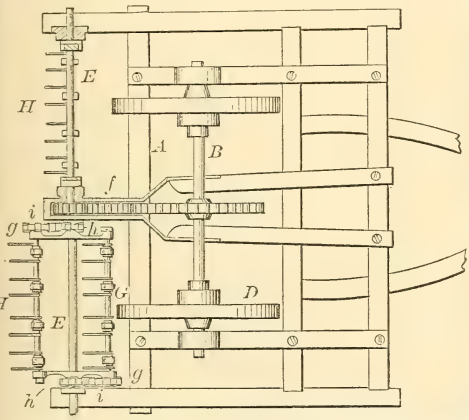
**86776**—D. B. Morgan—*Cultivator and Seed Planter.*



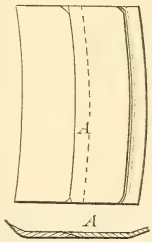
**86775**—S. Miller—*Horse Hay Fork.*



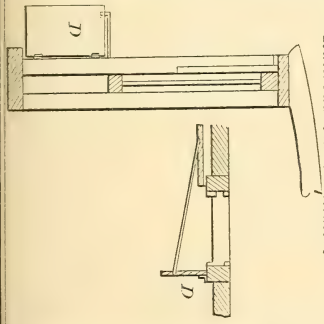
**86777**—M. D. Myers—*Hay Spreader.*



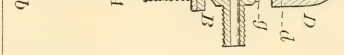
**86779**—S. C. Phinney—*For Boot and Shoe Counters.*



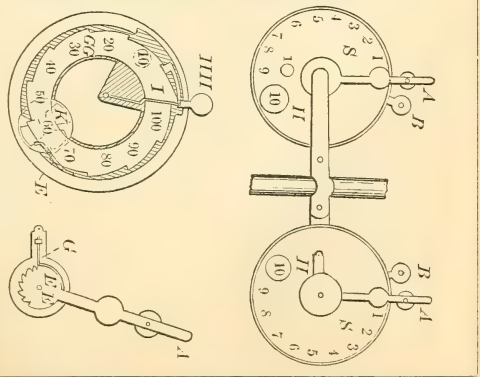
**86780**—Russell & Holmes—*Railroad Car Ventilator.*



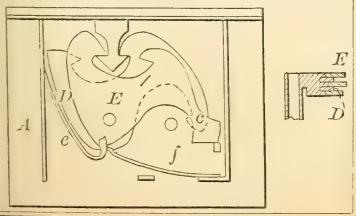
**86782**—Schnackenberg & Rosenkranz—*Soda Fountain.*



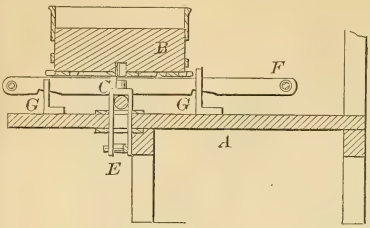
**86781**—E. Schellhorn—*Game Counter.*



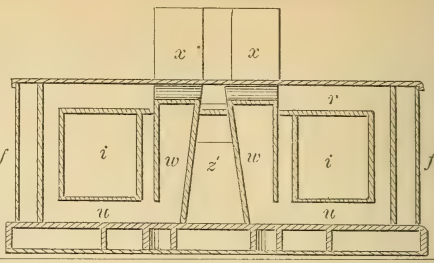
**86778**—J. Nock—*Trunk Lock.*



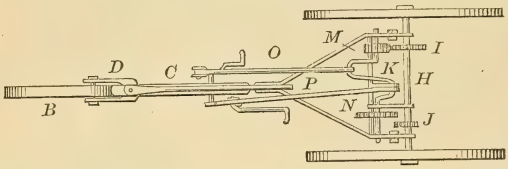
**86783**—F. G. Siemers—*Meat Chopper.*



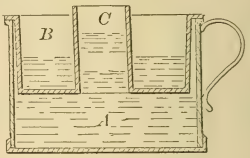

**86785**—W. Steffe—*Cooking Range.*



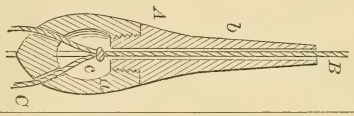

**86787**—Thompson & Marden—*Velocipede.*



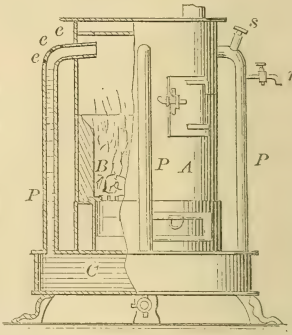

**86788**—J. Tinney—*Glue Pot.*



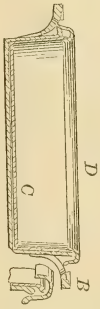

**86786**—F. Tellgmann—*Fishing Tackle.*



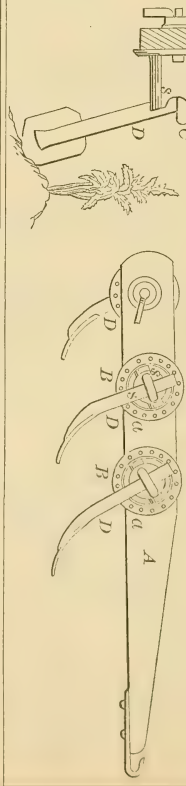

**86790**—A. A Wheelock—*Railroad Car Stove.*



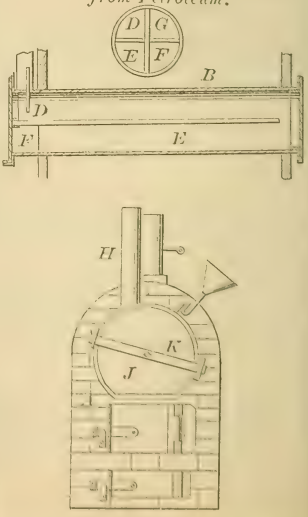

**86791**—H. C. Wilcox—*Baking Dish.*



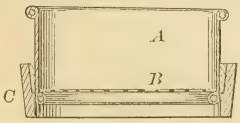

**86794**—G. W. Zeigler—*Cultivator.*



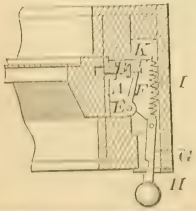

**86793**—G. W. Wren—*For Gas from Petroleum.*



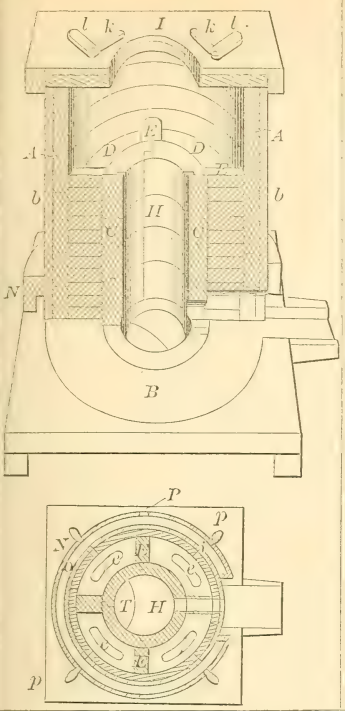

**86789**—Ward & Hudson—*Moulders' Riddle.*



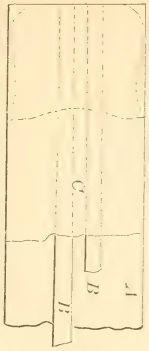

**86792**—T. O. Wilson—*Sash Fastener.*



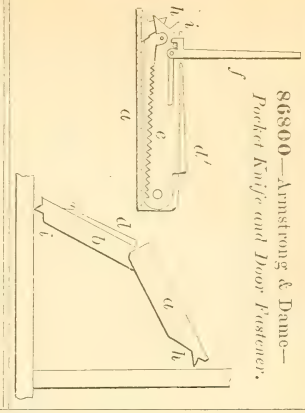
86795—J. Absterdam—*Furnace.*



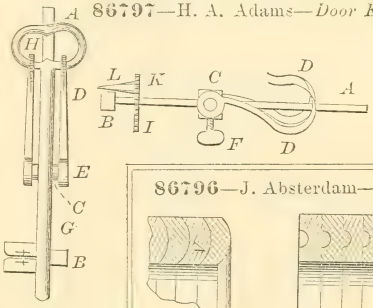
86798—R. Allison—*Saddle Cloth.*



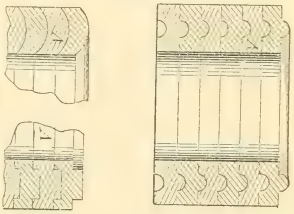
86800—Armstrong & Dame—*Pocket Knife and Door Fastener.*



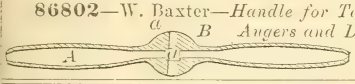
86797—H. A. Adams—*Door Key Guard.*



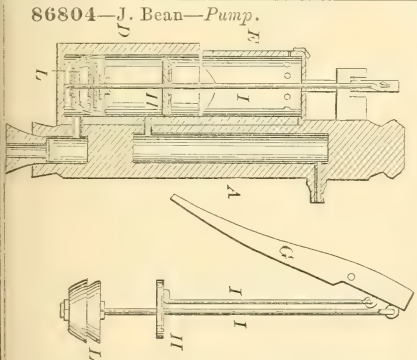
86796—J. Absterdam—*Furnace.*



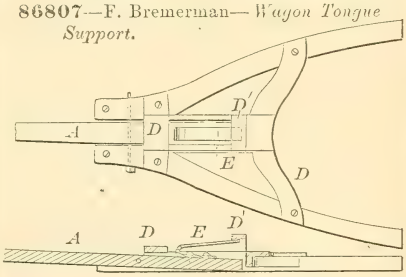
86802—W. Baxter—*Handle for Taps, Augers and Drills.*



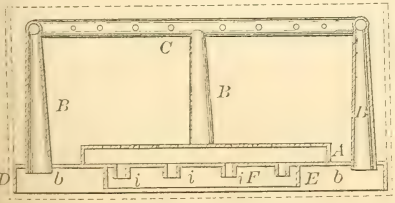
86804—J. Bean—*Pump.*



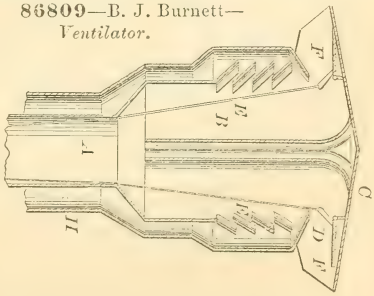
86807—F. Bremerman—*Wagon Tongue Support.*



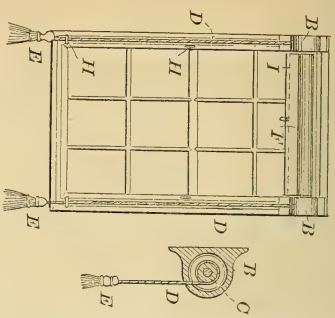
86803—G. Bantz—*For Extracting Essences.*



86809—B. J. Burnett—*Ventilator.*



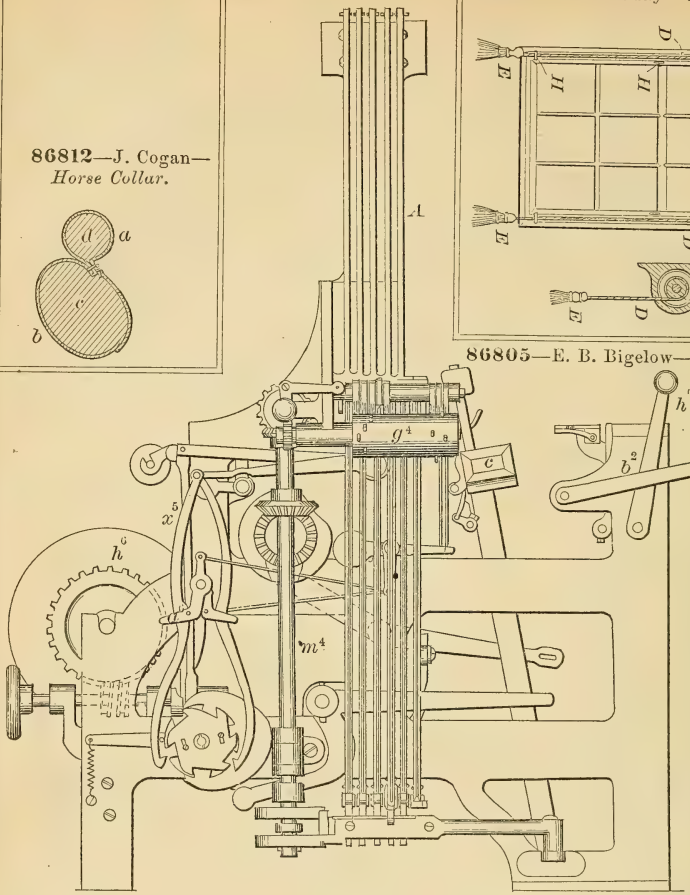
86810—R. Cassaday—*Curtain Fixture.*




86812—J. Cogan—*Horse Collar.*

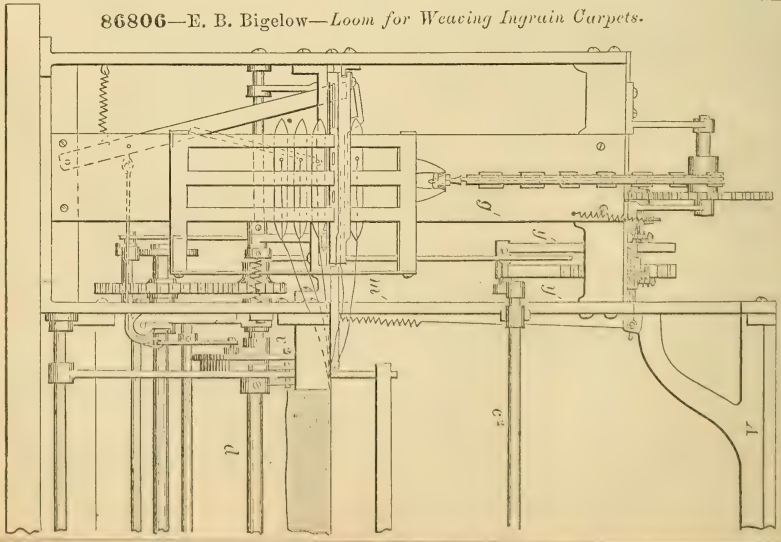



86805—E. B. Bigelow—*Power Loom.*

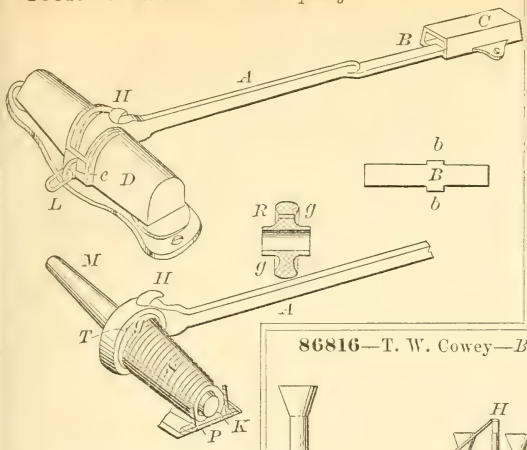



86811—J. B. Clark—*Whiffletree Plate.*

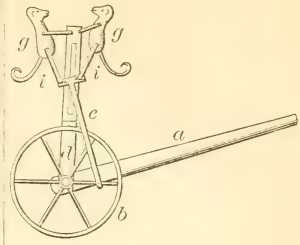
86806—E. B. Bigelow—*Loom for Weaving Ingrain Carpets.*



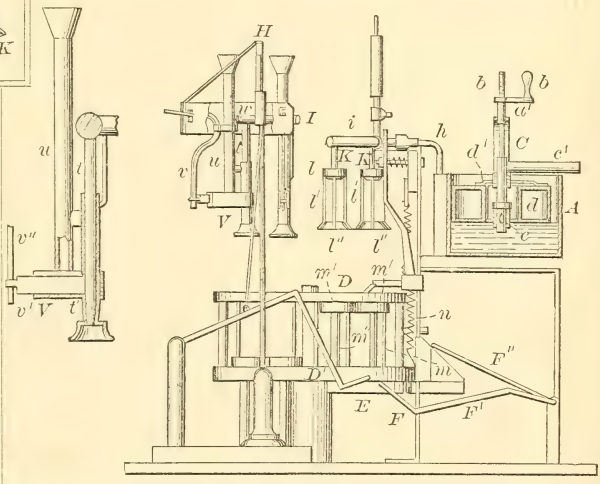
**86815**—J. M. Connel—*Door Spring.*



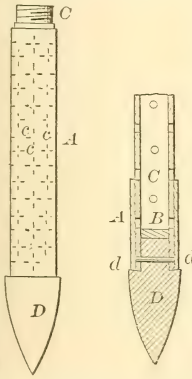

**86814**—J. & A. Condell—*Toy.*



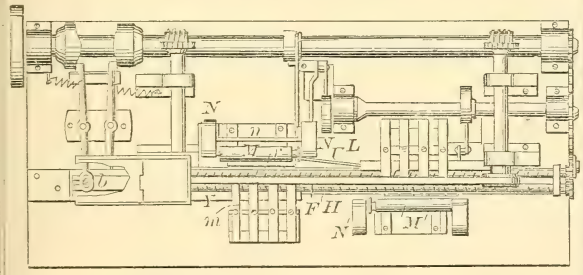

**86816**—T. W. Cowey—*Bottle Filler and Corker.*



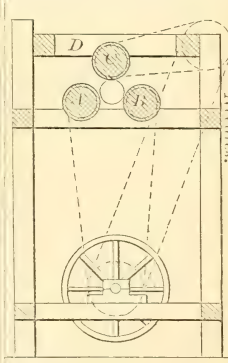

**86821**—D. A. Danforth—*Well Tube.*

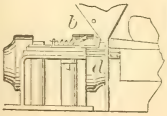


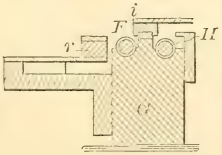

**86817**—C. O. Crosby—*Polishing Needles.*



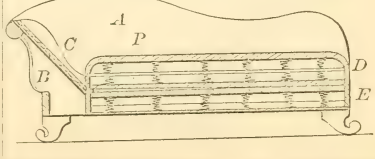

**86819**—C. O. Crosby—*For Scouring Needles.*



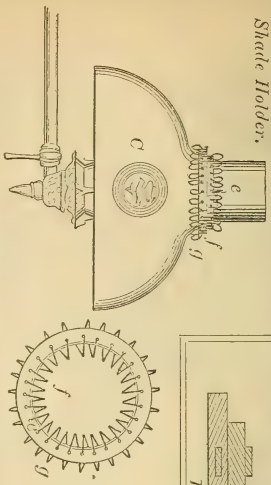



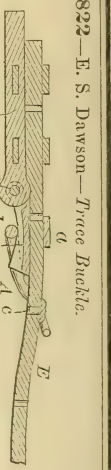

**86820**—Curtiss & Hendee—*Lounge.*



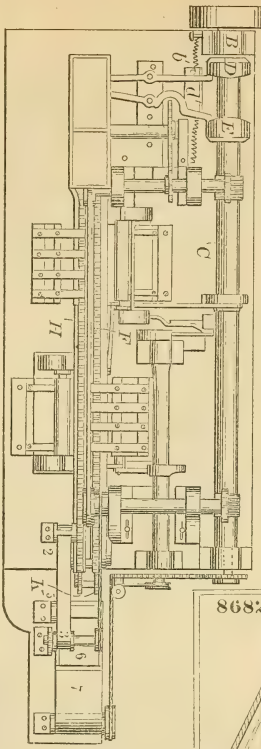
**86824**—Dimond & Doolittle—*Shade Holder.*

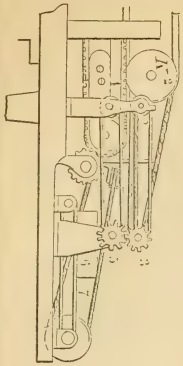


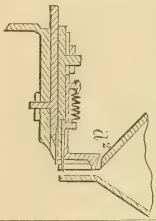
**86822**—E. S. Dawson—*Trace Buckle.*



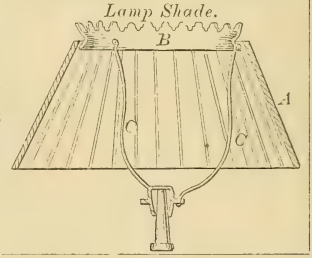
**86818**—C. O. Crosby—*Polishing Needles.*



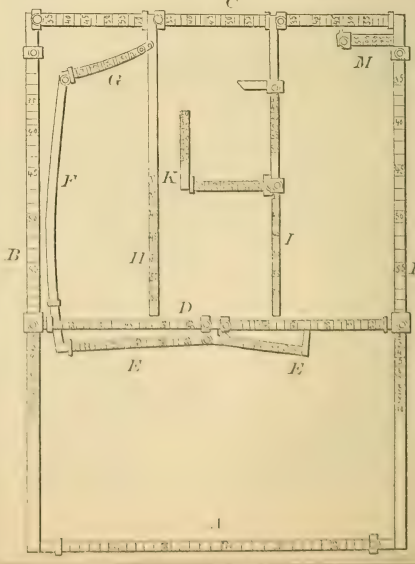




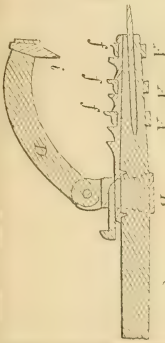
**86825**—Dimond & Doolittle—*Lamp Shade.*



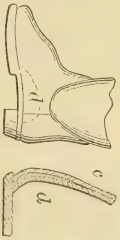
**86829**—A. H. Flores—*Scale for Tailors' Use.*



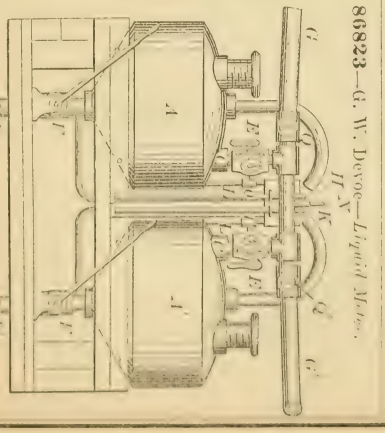
**86828**—J. E. Emerson—*Coat Hook.*



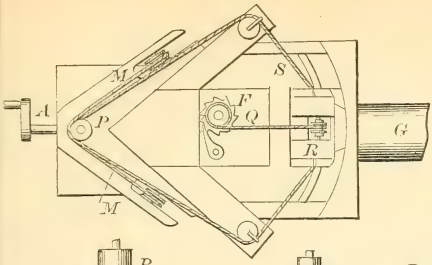
**86827**—L. Elliott, Jr.—*Rubber Boot.*

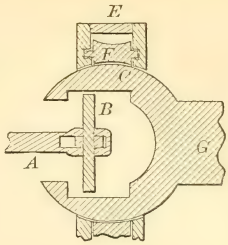


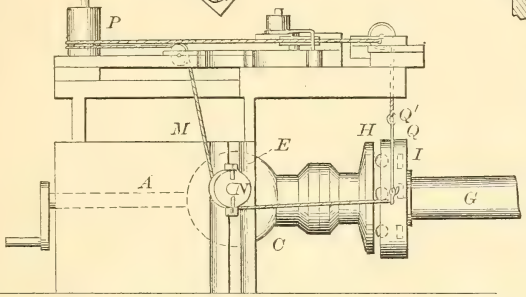
**86823**—G. W. Devoe—*Liquid Meter.*



**86826**—A. Duvall—*Mechanical Movement.*

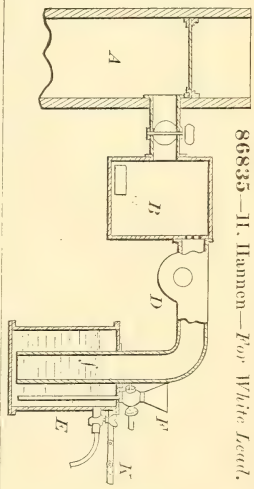


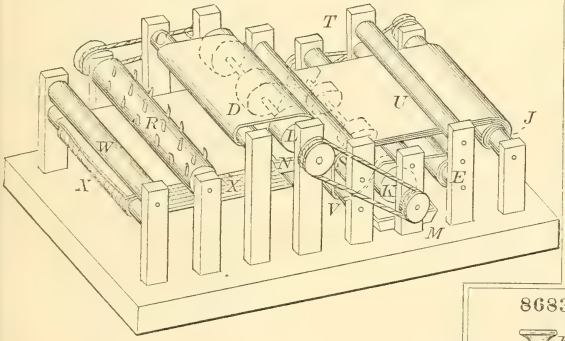




**86832**—B. D. Godfrey—*Boot and Shoe Nail.*

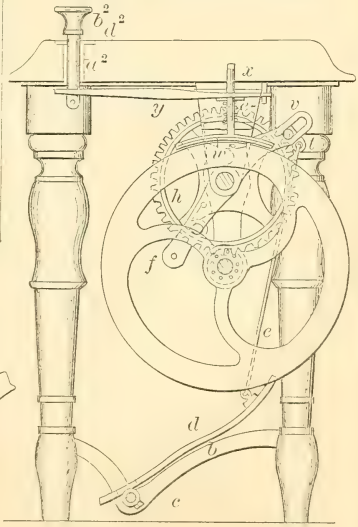
**86835**—H. Hannen—*For White Lead.*



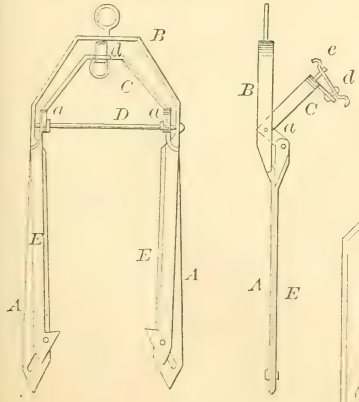

**86830**—Foster & Dill—*For Making Carpet Lining.*



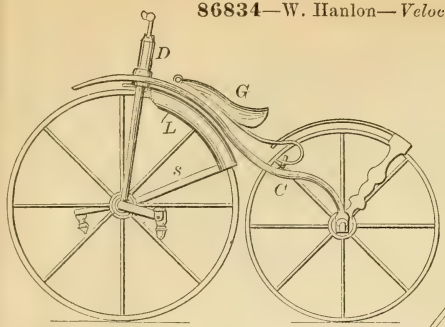

**86833**—W. S. Hall—*Treadle.*

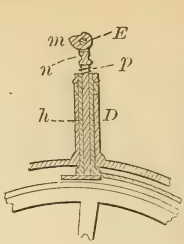



**86831**—G. D. S. Gochnauer—*Horse Hay Fork.*

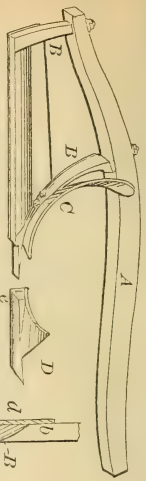


86834—W. Hanlon—*Velocipede.*

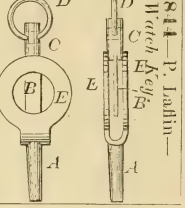


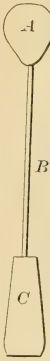

86839—A. P. Ingalls—*Plow.*



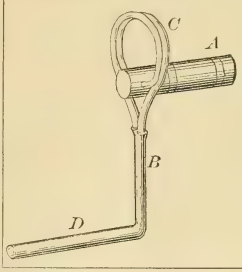

86844—P. Laflin—*Watch Key.*



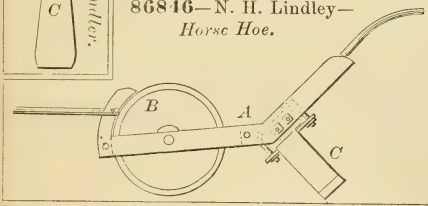

86838—H. K. Horton—*Fire Kindler.*



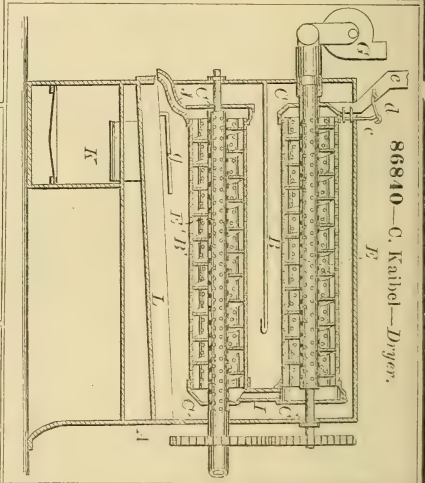

86845—P. Laflin—*Clock Key.*



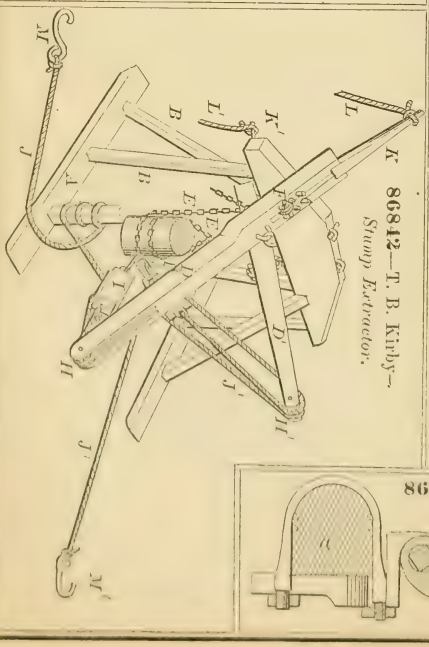

86846—N. H. Lindley—*Horse Hoe.*



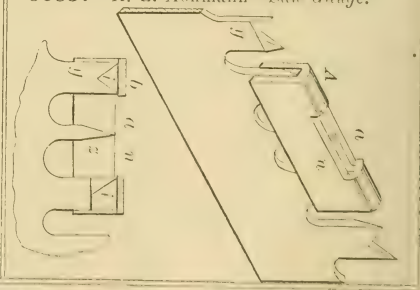

86840—C. Kaibel—*Dryer.*



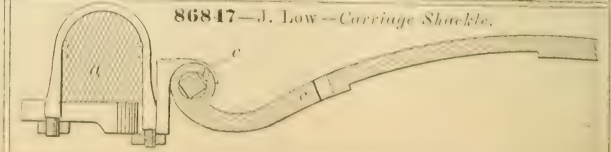

86842—T. B. Kirby—*Stump Extractor.*



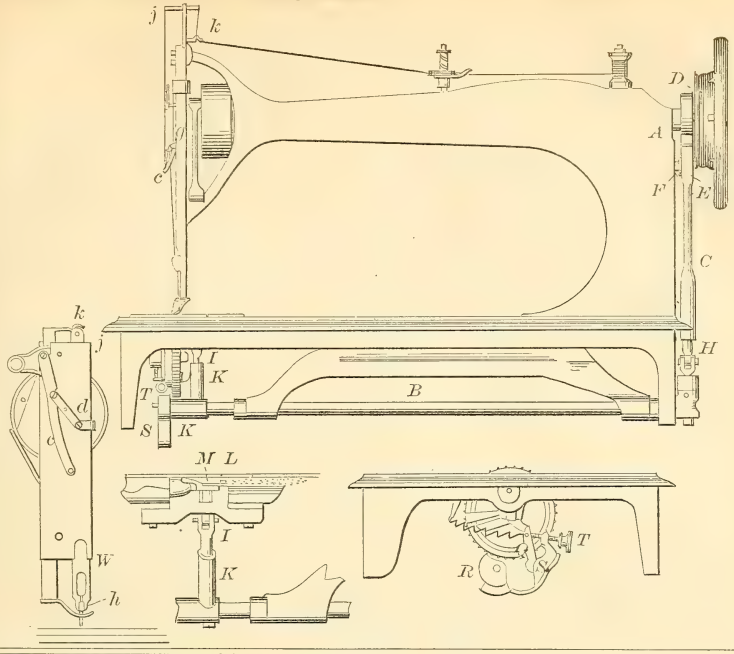

86837—A. E. Hoffmann—*Saw Gauge.*



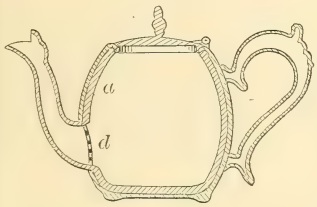

86847—J. Low—*Carriage Shackle.*



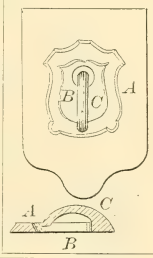
**86848**—T. A. Macaulay—*Sewing Machine.*



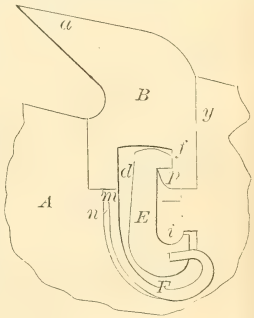

**86849**—E. B. Manning—*Tea Pot.*



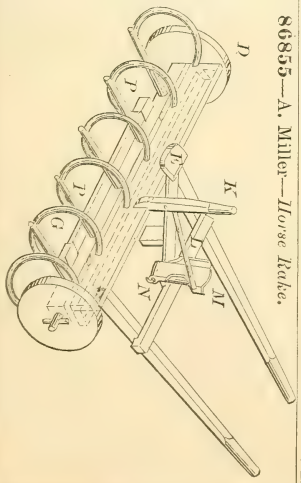

**86852**—W. McKeraban—*Back Band Hook.*



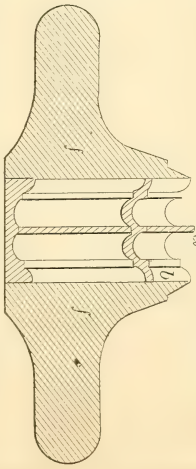

**86850**—G. Maulick—*Saw.*



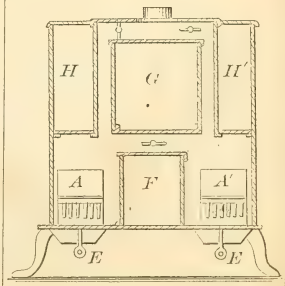

**86855**—A. Miller—*Horse Rake.*



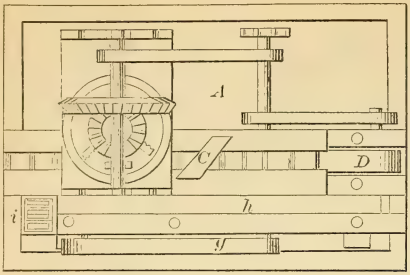

**86851**—A. W. Maxwell—*Moulding Plane.*



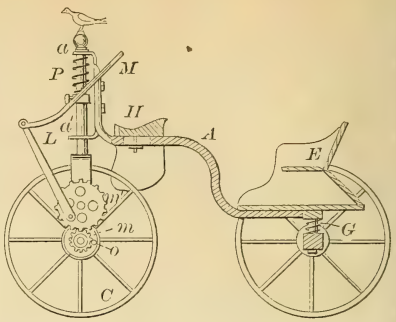

**86854**—M. Mellinger—*Stove.*

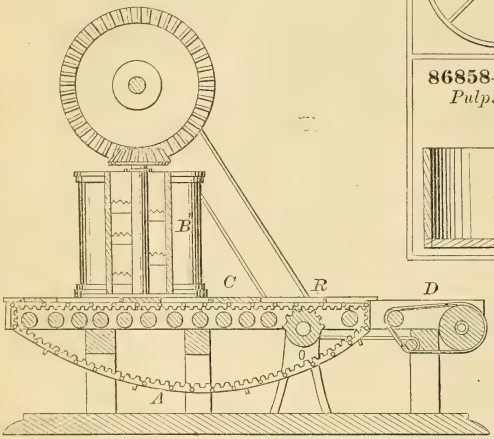


**86853**—J. McManus—*Brick Machine.*

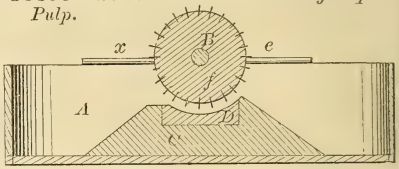



**86856**—J. Monroe—*Velocipede.*

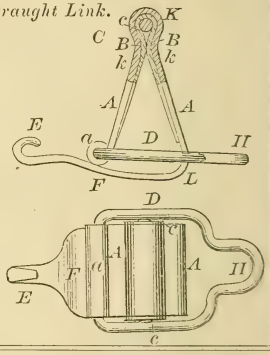


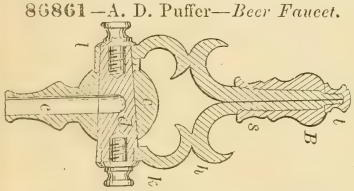

**86858**—W. Parkison—*For Making Paper Pulp.*




**86863**—B. Richards—*Draught Link.*

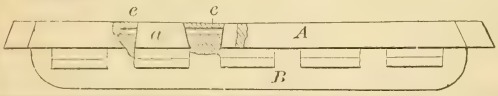



**86861**—A. D. Puffer—*Beer Faucet.*

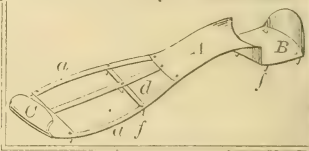



**86864**—C. E. Richards—*Jewelry, &c.*

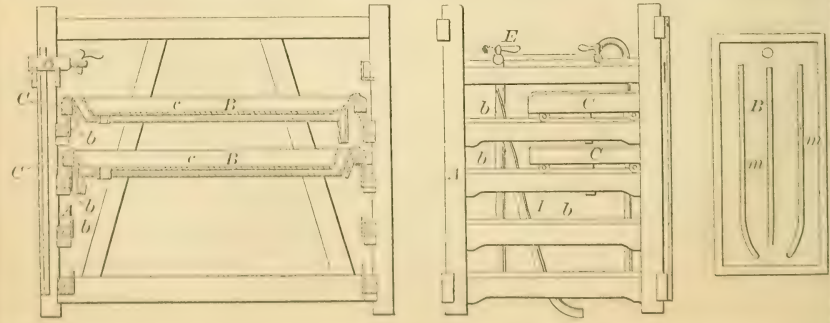
**86862**—W. Randall—*Grate Bar.*



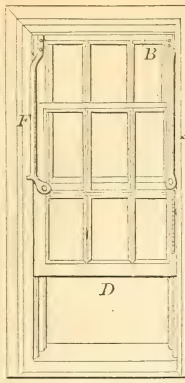

**86857**—H. Myer—*Boot Calk.*



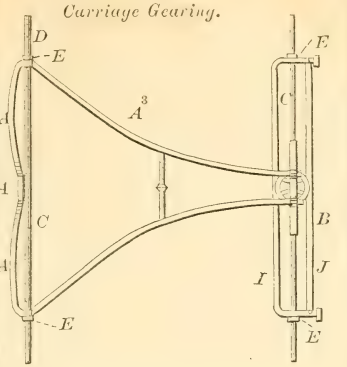

**86860**—A. Pope—*For Obtaining Cream from Milk.*



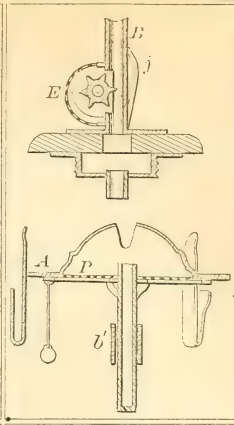
**86865**—B. Roy—*Sash Elevator and Fastener.*



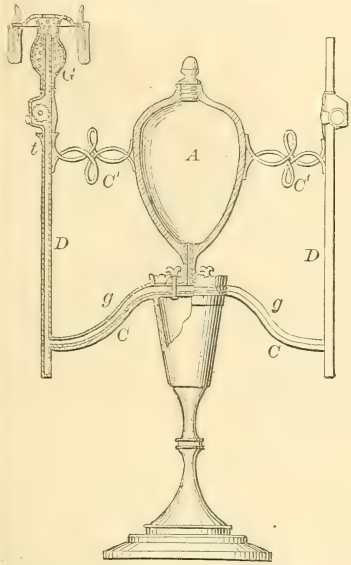

**86866**—C. W. Saladee—*Carriage Gearing.*



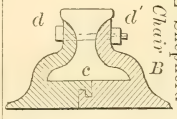

**86869**—J. F. Sanford—*Lamp Burner.*



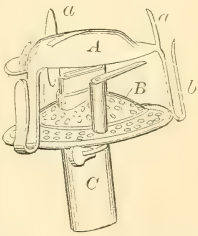

**86867**—J. F. Sanford—*Lamp.*



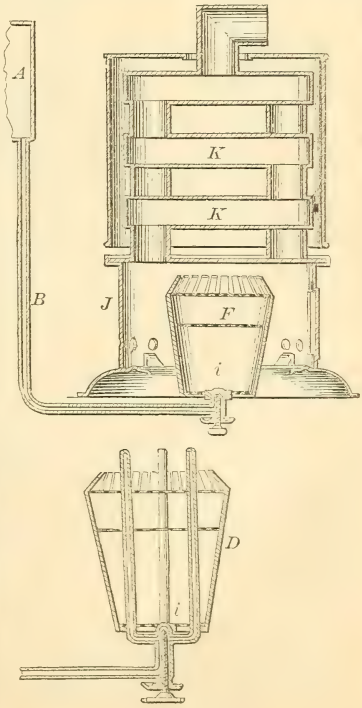

**86874**—O. L. Shepherd—*Railway Rail Chair.*



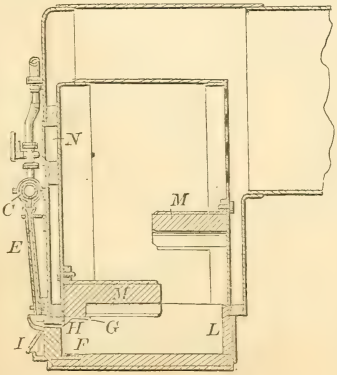

**86868**—J. F. Sanford—*Lamp Wick Trimmer.*



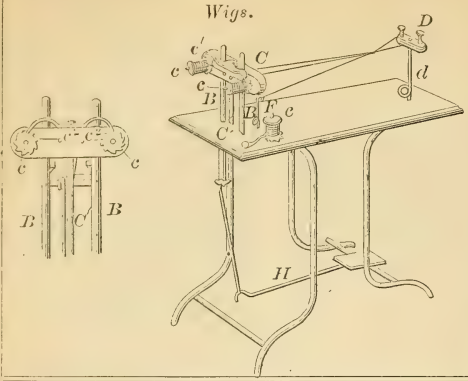

**86870**—H. S. Saroni—*Vapor Burner.*



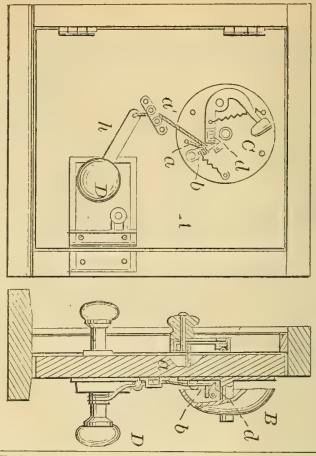

**86871**—C. Sauvage—*Hydro-Carbon Burner.*



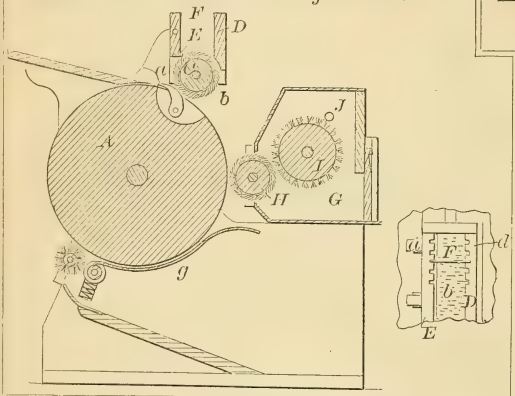
**86872**—L. A. Seago—*For Weaving Hair for Wigs.*



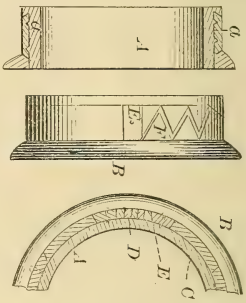
**86876**—C. A. Slack—*Alarm Bell.*



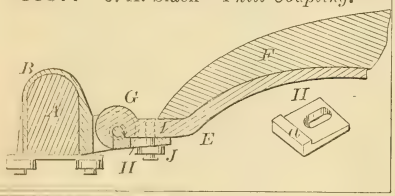
**86875**—H. Skidmore—*Bronzing Machine.*



**86878**—J. Y. Smith—*Car Wheel.*



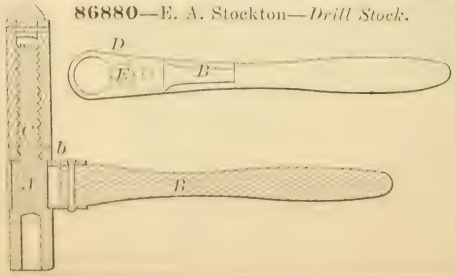
**86877**—C. A. Slack—*Thill Coupling.*



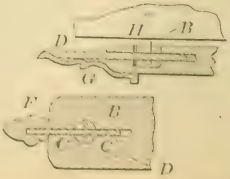
**86879**—W. S. Spratt—*Cultivator.*

**86882**—J. C. Thompson—*Horn Tip for Cattle.*

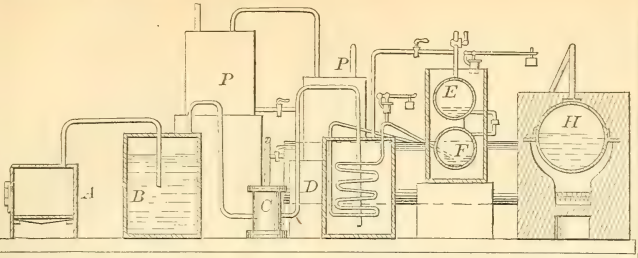
**86880**—E. A. Stockton—*Drill Stock.*



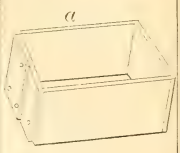
**86881**—H. Uhry—*Stair Rod.*



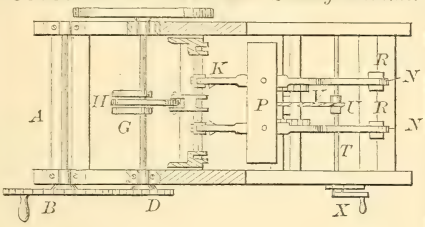
**86881**—A. H. Tait—*For Sulphuric Acid.*

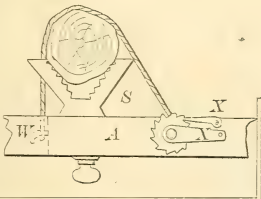



**86886**—J. Vincent—*Fruit Box.*

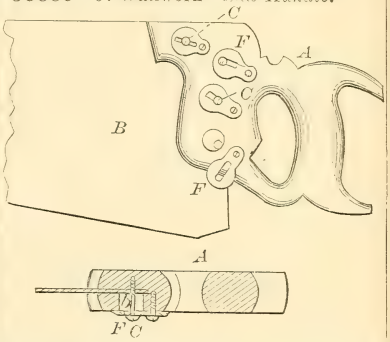



**86883**—A. W. Townshend—*Sawing Machine.*

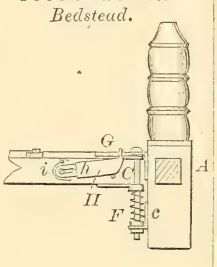


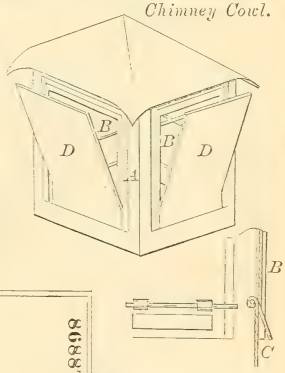

**86889**—J. Wallwork—*Saw Handle.*



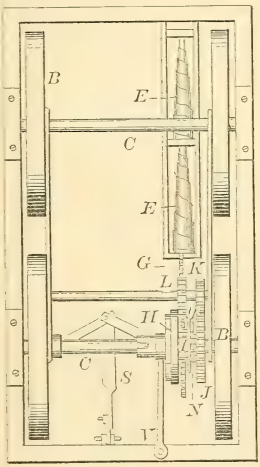

**86892**—D. Witt—*Bedstead.*

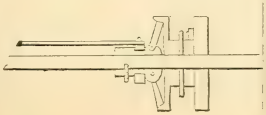



**86891**—Whiting & Whittemore—*Chimney Cowl.*

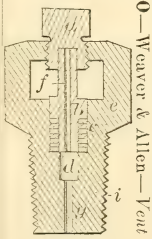



**86885**—A. B. Vandemark—*Car Brake and Starter.*

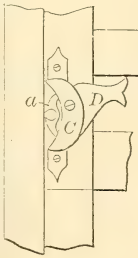


**86890**—Weaver & Allen—*Vent Plug.*

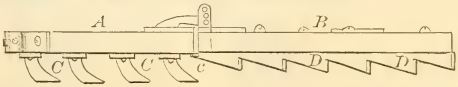



**86887**—F. Walker—*Stash Holder.*

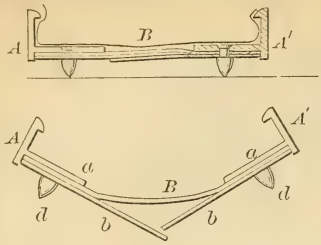



**86888**—F. Walker—*Clothes Pin.*

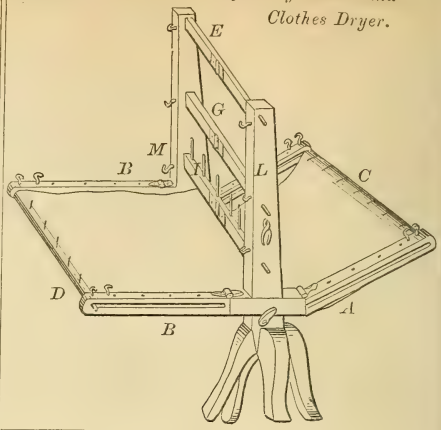
**86893**—D. Witt—*Breaker and Leveler.*



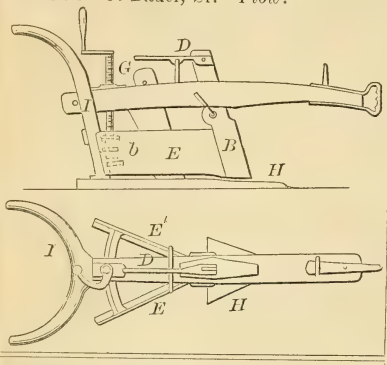
**86894**—D. Cumming—*Ice Creeper.*



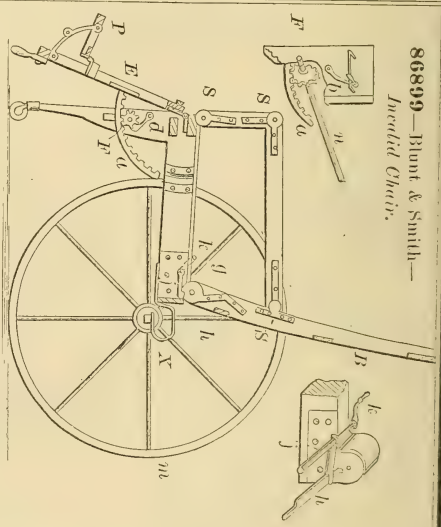

**86895**—J. G. Ishler—*Quilting Frame and Clothes Dryer.*



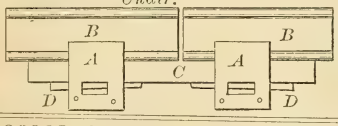

**86896**—J. Bader, Sr.—*Plow.*



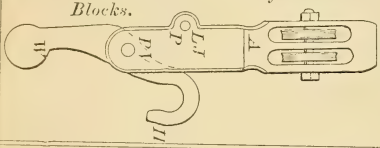

**86899**—Blunt & Smith—*Invalid Chair.*



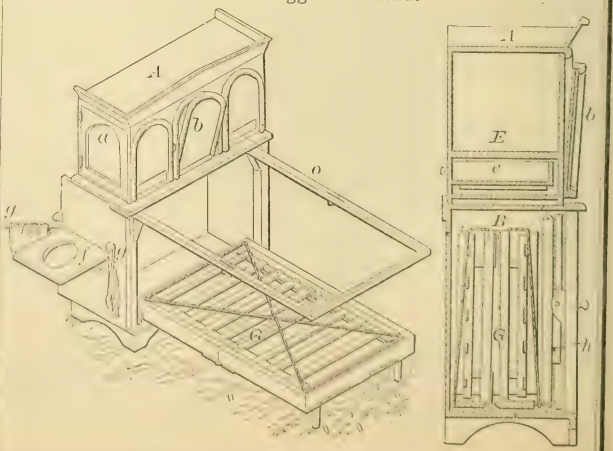

**86897**—H. L. Beach—*Railway Rail Chair.*



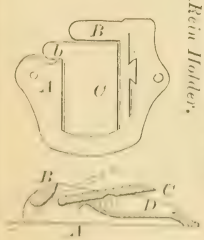

**86902**—W. Carter—*Hook for Tackle Blocks.*



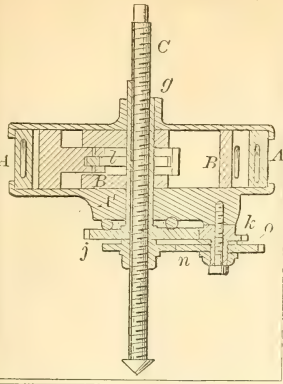

**86901**—E. E. & M. G. Briggs—*Bedstead.*



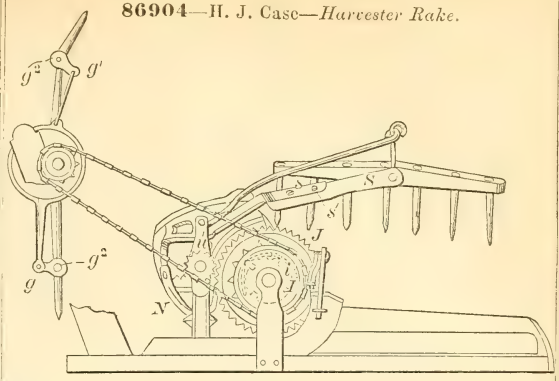

**86900**—Boon & Mills—*Rein Holder.*



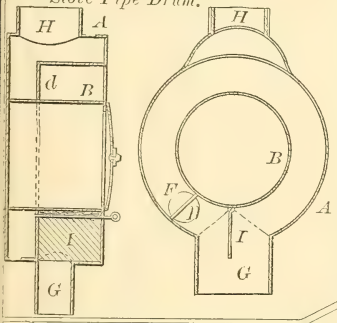
**86903**—G. F. Case—*Drill.*

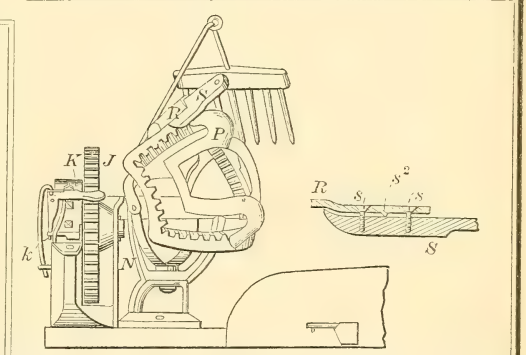



**86904**—H. J. Case—*Harvester Rake.*

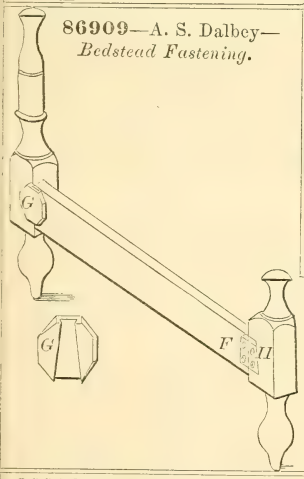



**86907**—J. W. Clough—*Oven and Stove Pipe Drum.*

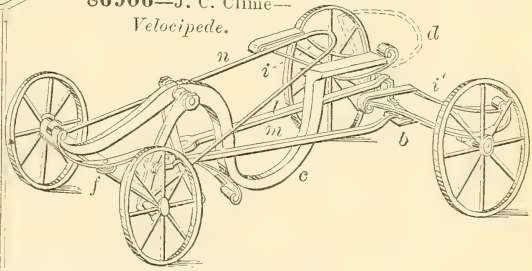


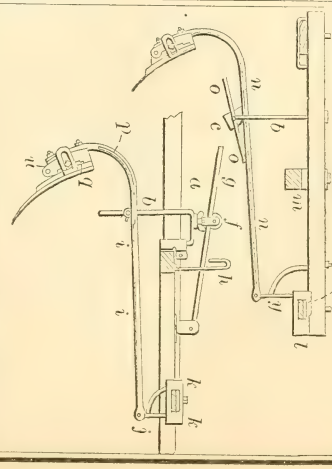

**86909**—A. S. Dalbey—*Bedstead Fastening.*



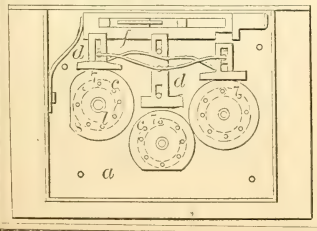

**86906**—J. C. Clime—*Velocipede.*

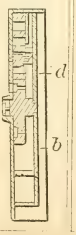



**86905**—M. & J. Caywood—*Cultivator.*

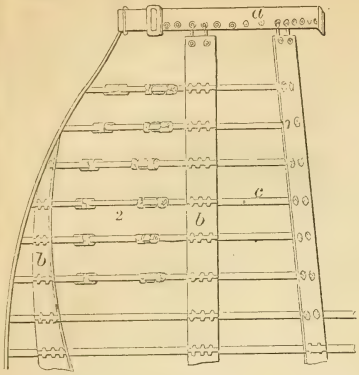



**86908**—Cole & Ayres—*Lock.*

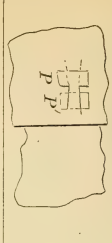


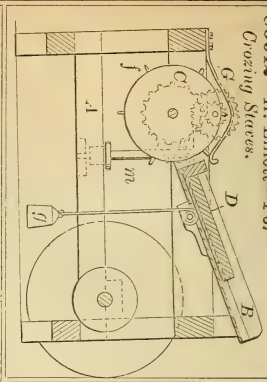
**86910**—T. D. Day—*Hoop Skirt.*



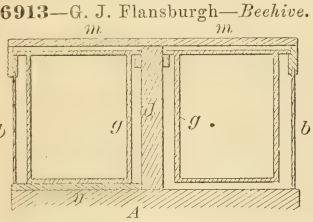
**86911**—T. J. & F. Dieterichs—*Fastening for Sheet Metal.*



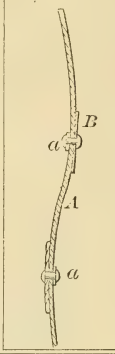
**86912**—H. Elliott—*For Crozing Staves.*



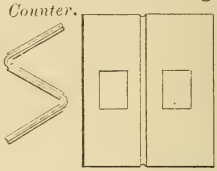
**86913**—G. J. Flansburgh—*Beehive.*



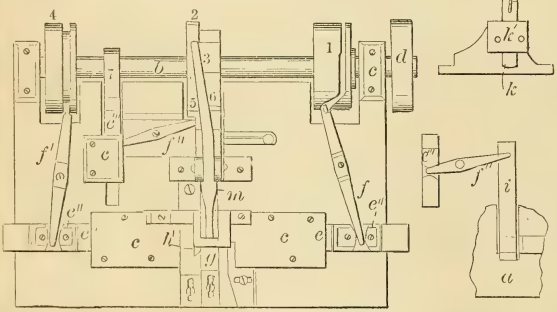
**86920**—E. Heaton—*Busk for Corsets.*



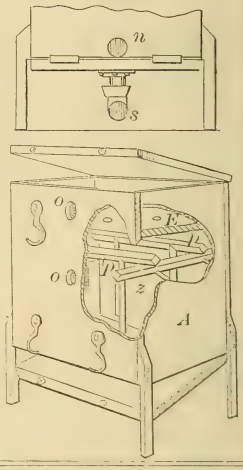
**86919**—A. A. Griffing—*Game Counter.*



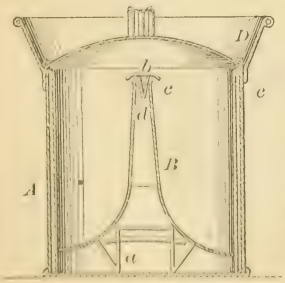
**86914**—G. H. Fuller—*Nut Machine.*



**86915**—J. C. Gaston—*Beehive.*



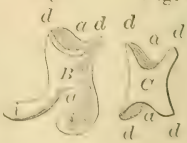
**86918**—J. Green—*Wash Boiler.*



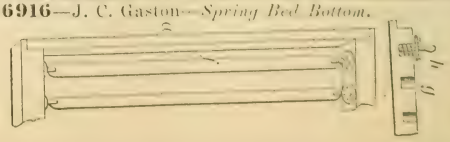
**86917**—Gillet, Damitte, Dubois & Boissonneau—*Material for Paper.*

**86922**—G. H. Hurd—*Dental Jaw Brace.*

Fig. 1 Fig. 2



**86916**—J. C. Gaston—*Spring Bed Bottom.*



**86923**—G. B. Isham—*Gridiron.*

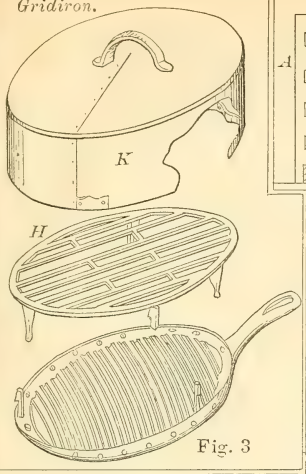
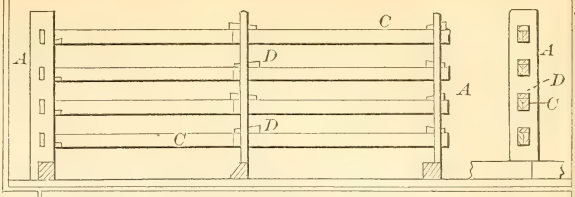
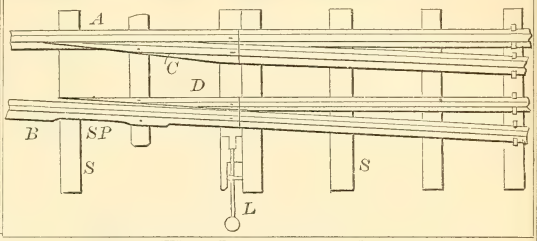



Fig. 3

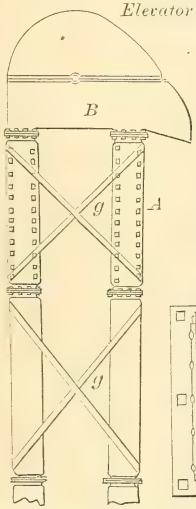
**86924**—W. Jasper—*Farm Fence.*



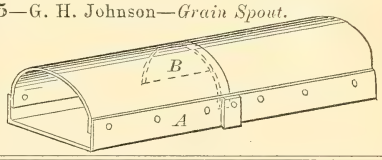

**86930**—C. W. Jones—*Railroad Switch.*



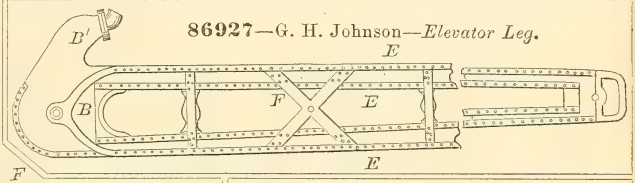

**86926**—G. H. Johnson—*Elevator Leg.*

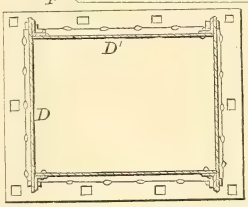



**86925**—G. H. Johnson—*Grain Spout.*

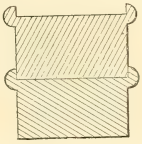



**86927**—G. H. Johnson—*Elevator Leg.*

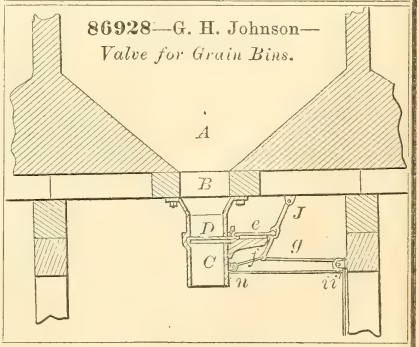


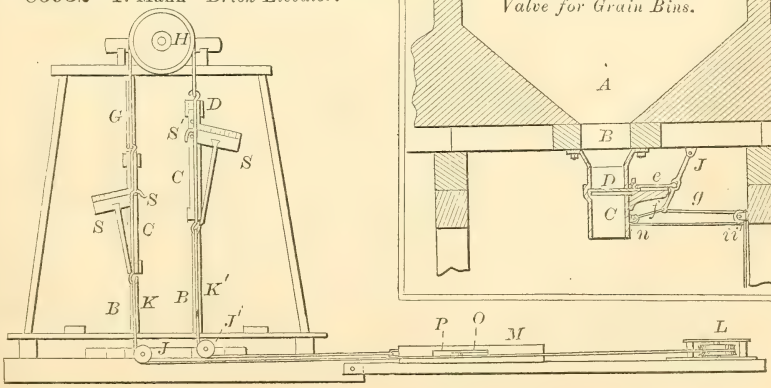

**86929**—Johnson & Milsom—*Building Brick or Hollow Block.*



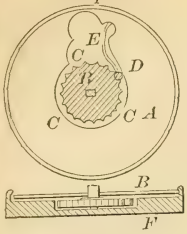
**86928**—G. H. Johnson—*Valve for Grain Bins.*



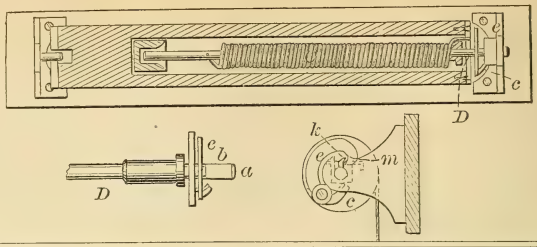

**86932**—T. Mann—*Brick Elevator.*



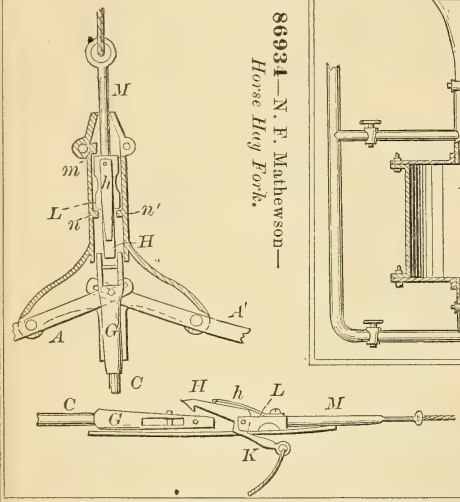
**86931**—W. H. Lamb—*Timepiece.*



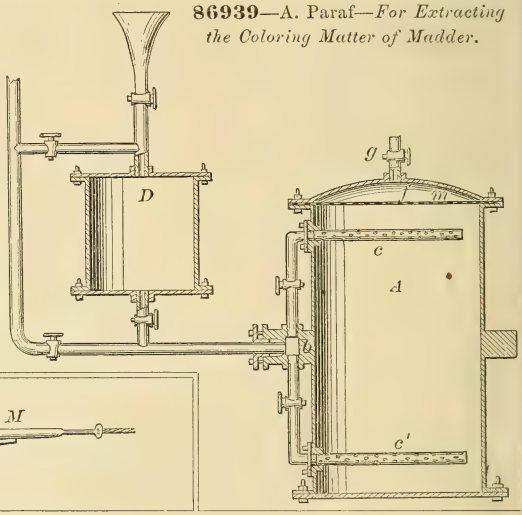

**86933**—M. S. Marshall—*Curtain Fixture.*



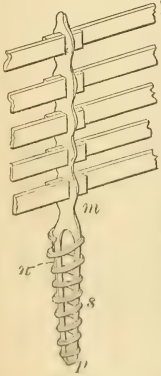

**86934**—N. F. Mathewson—*Horse Hay Fork.*



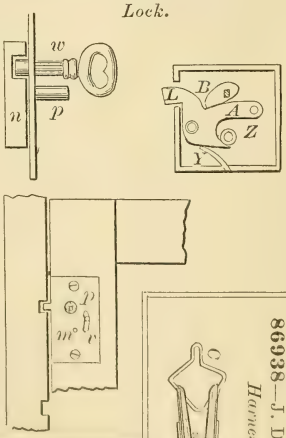

**86939**—A. Paraf—*For Extracting the Coloring Matter of Madder.*



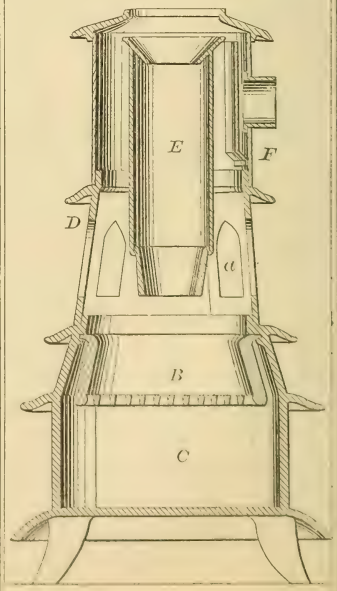

**86935**—W. A. Middleton—*Fence Post.*




**86936**—J. W. Moffitt—*Sash Lock.*

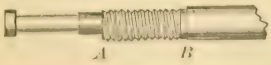



**86940**—J. S. Perry—*Stove*

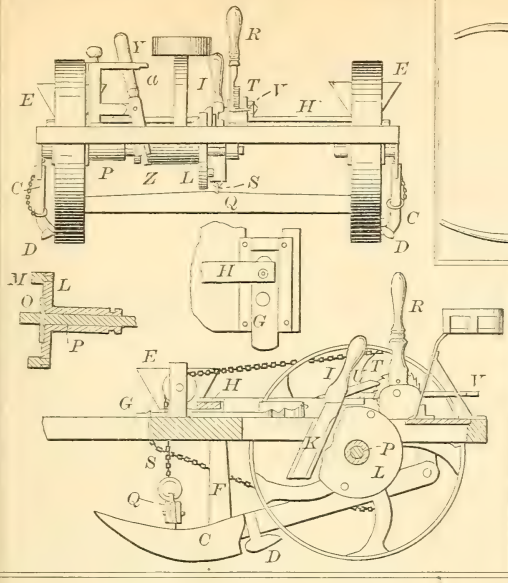



**86938**—J. D. S. Newell—*Clip for Harness Traces.*

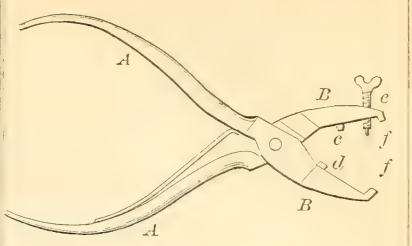
**86937**—H. Moores—*Car Axle.*



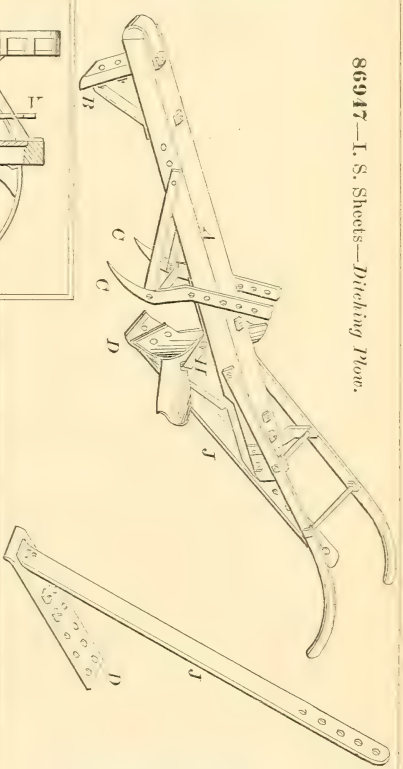
**86941**—Phillips & Richardson—*Corn Planter.*



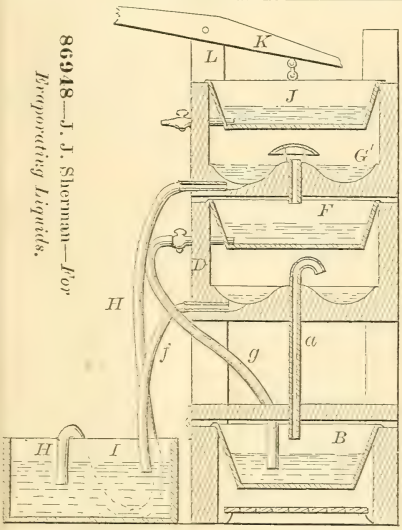

**86945**—H. Schauer—*Saw Set and Punch.*



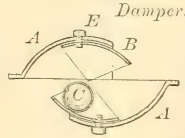

**86947**—I. S. Sheets—*Ditching Plow.*



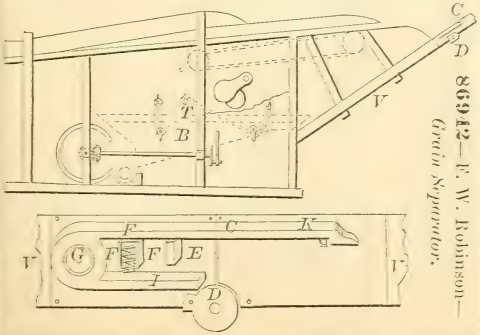

**86948**—J. J. Sherman—*For Evaporating Liquids.*



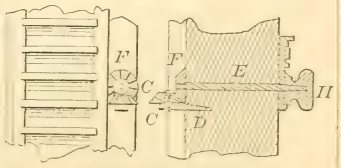

**86943**—D. Sanders—*Stove Pipe Damper.*



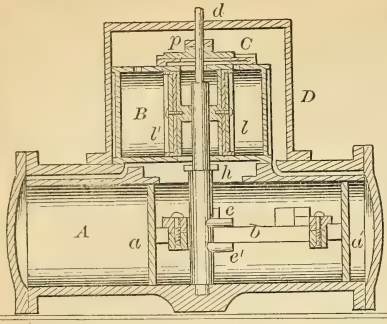

**86942**—E. W. Robinson—*Grain Separator.*



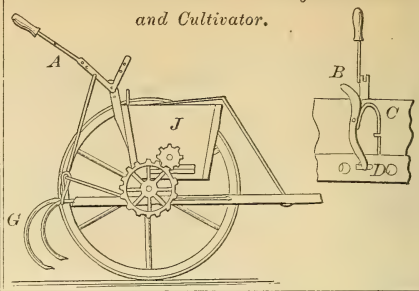

**86946**—C. W. Shattuck—*Shutter Worker.*



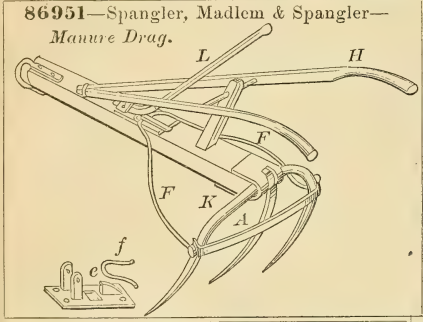
**86949**—G. Sickles—*Fluid Meter.*



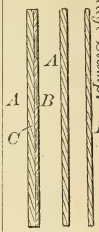

**86950**—M. D. Smith—*Seeding Machine and Cultivator.*



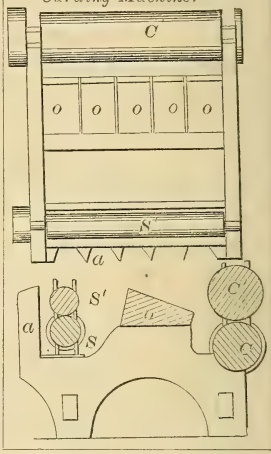

**86951**—Spangler, Madlem & Spangler—*Manure Drag.*



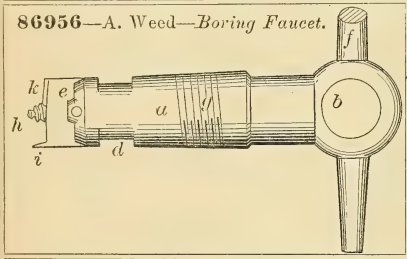

**86952**—C. F. Steel—*Revenue and Postage Stamp.*



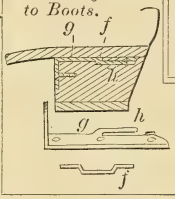

**86953**—B. W. Taugee—*Carding Machine.*



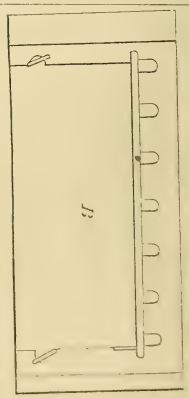

**86956**—A. Weed—*Boring Faucet.*

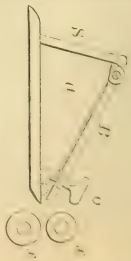



**86955**—C. D. Ulmer—*Attaching Heels to Boots.*



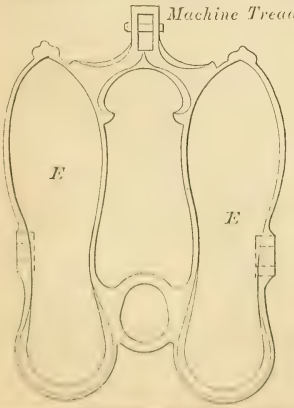

**86954**—B. W. Taugee—*Carding Machine.*



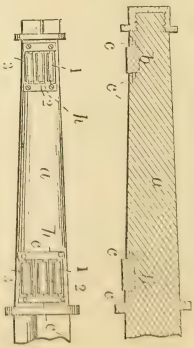




**86958**—W. Wilber—*Boot and Shoe Shave.*

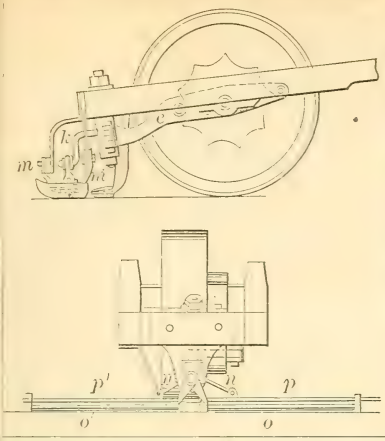
**86957**—A. Weissenborn—*Sewing Machine Treadle.*



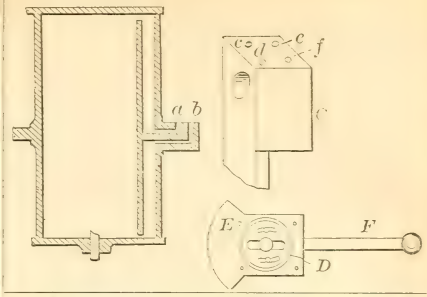

**86959**—Wilbur & Tuttle—*Carriage Axle.*



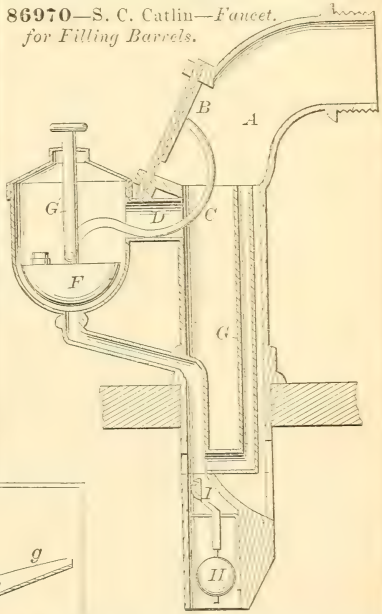
**86960**—M. S. G. Wilde—*Lawn Mower.*



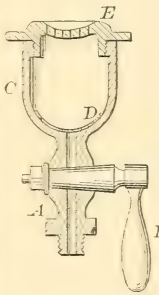

**86965**—L. Andersen—*Steam Engine.*



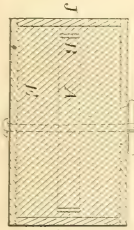

**86970**—S. C. Catlin—*Faucet for Filling Barrels.*



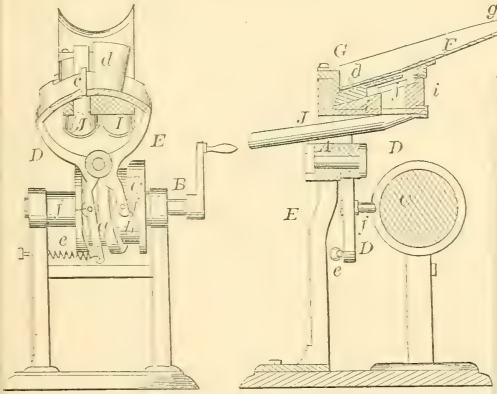

**86964**—A. N. Allen—*Steam Heater.*



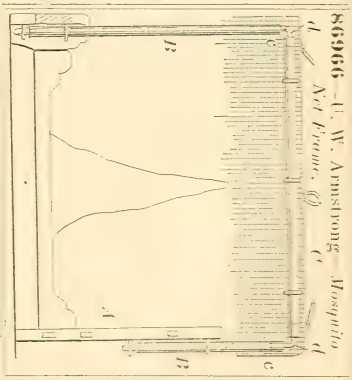

**86961**—J. D. Wise—*Casting Building Blocks.*



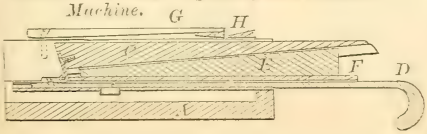

**86968**—C. Baer—*Type Breaker.*



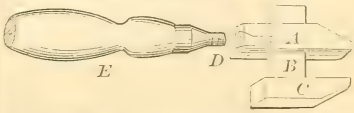

**86966**—U. W. Armstrong—*Mosquito Net Frame.*



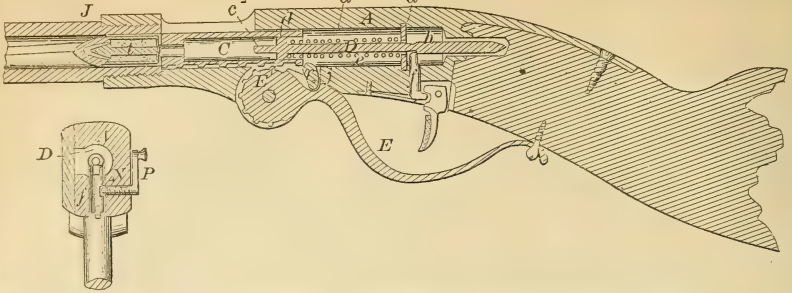

**86969**—W. Best—*Splitting and Skiving Machine.*



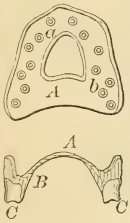

**86967**—J. N. Arvin—*Wrench.*



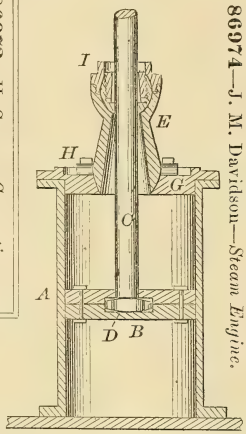
**86971**—I. B. Conklin—*Fire Arm.*




**86972**—H. Crane—*Connecting Artificial Teeth with Dental Plates.*

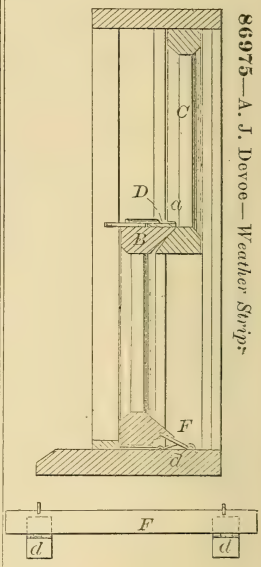



**86974**—J. M. Davidson—*Steam Engine.*



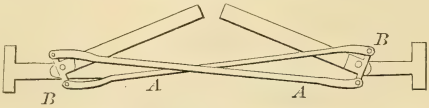

**86973**—Dakin & Butler—*Yarn Guide and Cleaver.*

**86975**—A. J. Doyoe—*Weather Strip.*

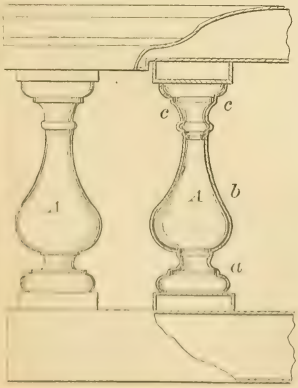



**86976**—D. F. Fetter—*Bolt.*

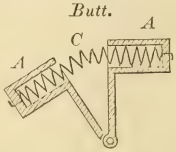
**86981**—Gooch & Jeffery—*For Opening and Closing Double Doors.*



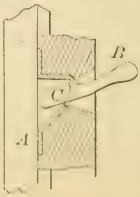

**86977**—G. Fischer—*Sheet Metal Balusters.*



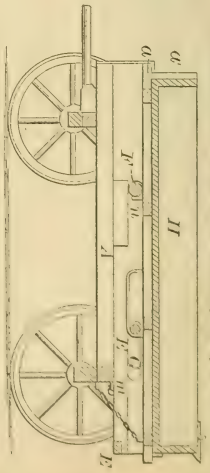

**86978**—F. Fredericks—*Butt.*



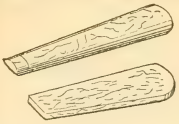

**86982**—W. A. Goranflo—*Sash Holder.*



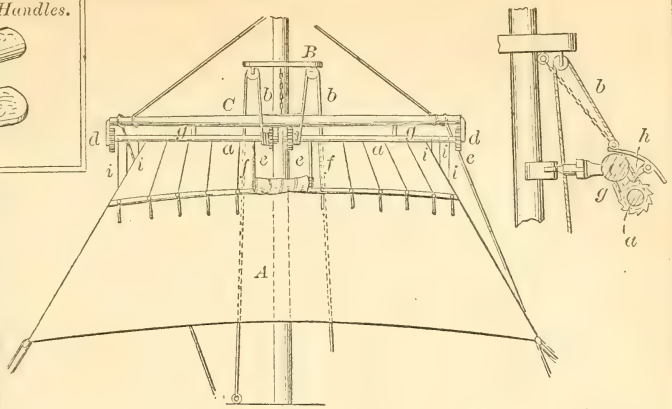

**86979**—T. H. Gary—*Dumping Wagon.*



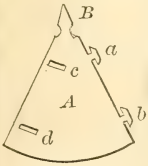
**86983**—I. G. Hotchkiss—*Blank for Cutlery Handles.*



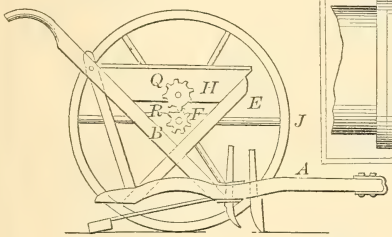
**86984**—N. Ingersoll—*Reefing Sails.*



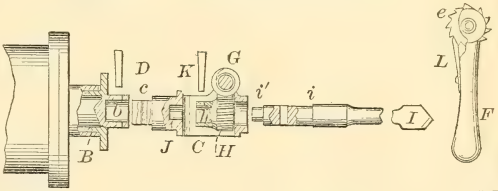

**86987**—A. D. Laws—*Lamp Shade*

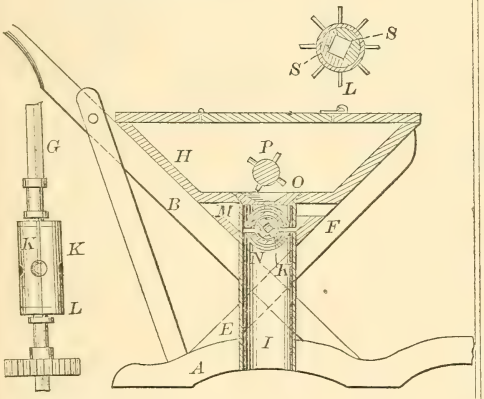



**86992**—R. R. McGregor—*Corn and Cotton Seed Planter.*

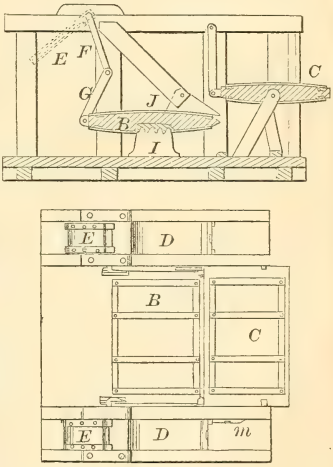



**86988**—R. C. M. Lovell—*Rock Drill.*

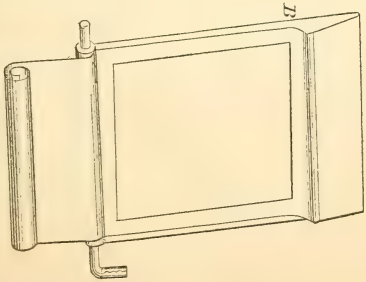


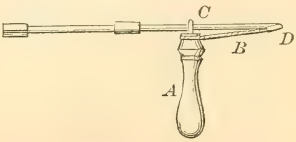

**86985**—J. J. Kimball—*Flood Gate.*



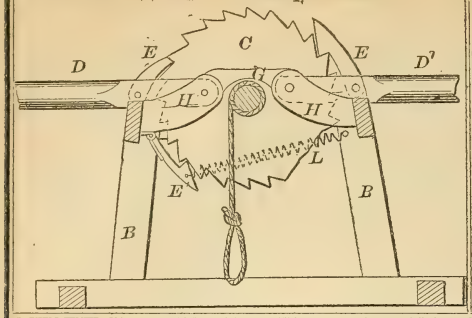

**86991**—H. D. McGeorge—*Picture Case and Cane.*



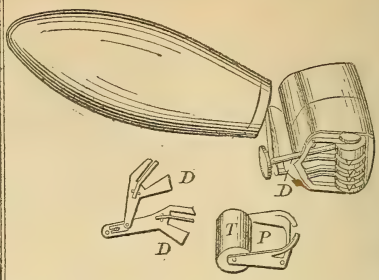

**86993**—W. S. McNeil—*Toy Spring and Arrow.*



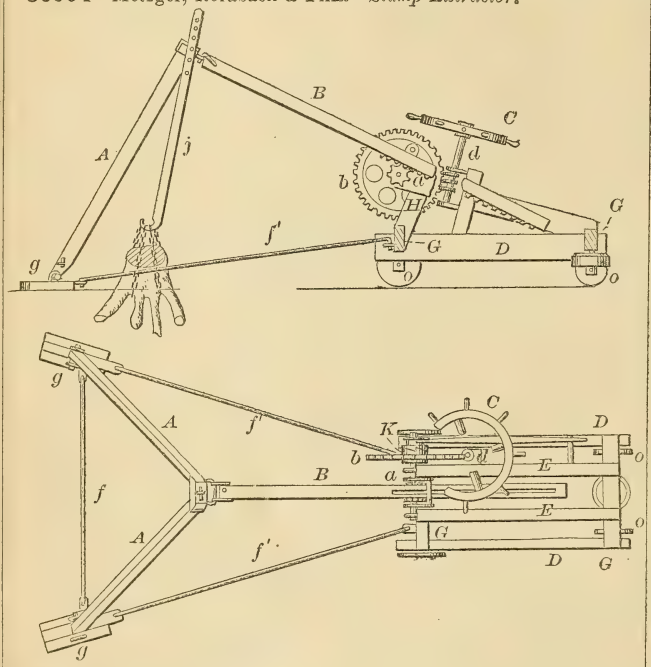
**86990**—A. J. McCrea—*Stump Extractor.*



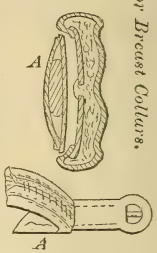

**87000**—R. T. Osgood—*Stamp Canceler.*



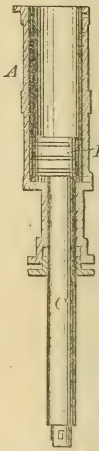

**86994**—Metzger, Roraback & Flint—*Stump Extractor.*



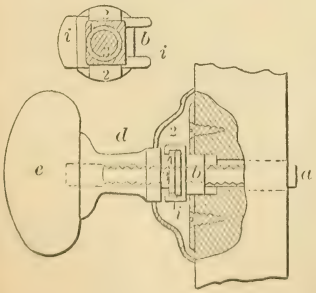

**86995**—R. B. Miles—*Pad for Breast Collars.*



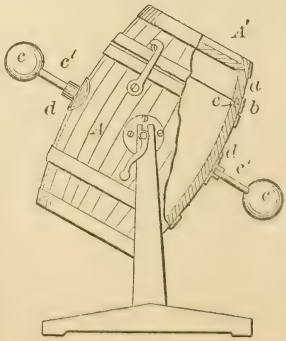

**86996**—A. Miller—*Steam Hammer Engine.*



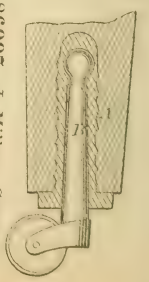

**86998** W. T. Munger—*Attaching Knobs to Spindles.*



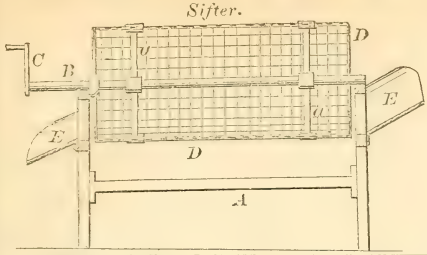

**86999**—R. Murphy—*Churn.*



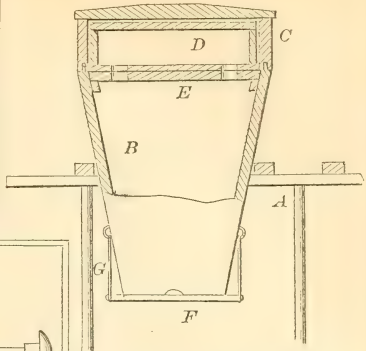

**86997**—J. Miller—*Caster.*



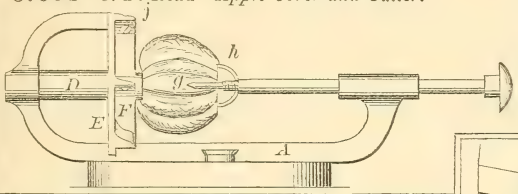
**87001**—Perrine & Conover—*Potato Assorter and Sifter.*



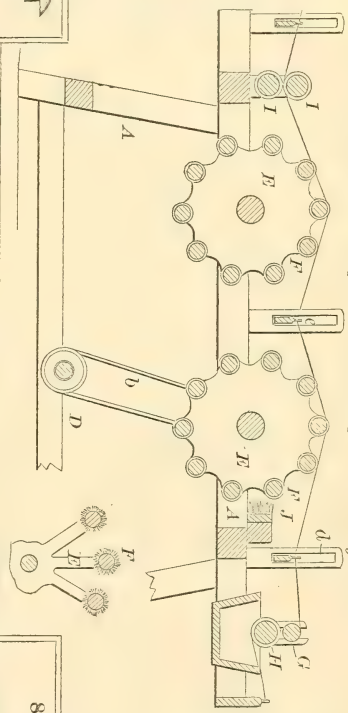

**87003**—J. P. Praul—*Beehive.*



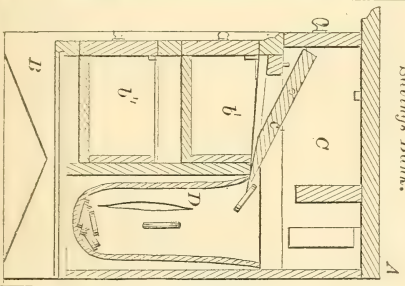

**87004**—C. D. Read—*Apple Corer and Cutter.*



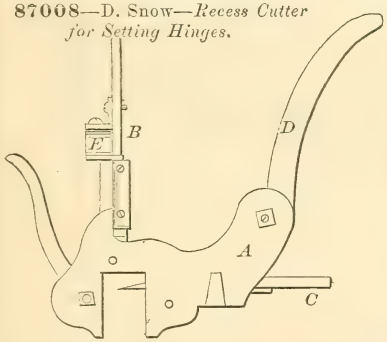

**87005**—S. & R. A. Semple—*For Polishing and Dressing Thread.*

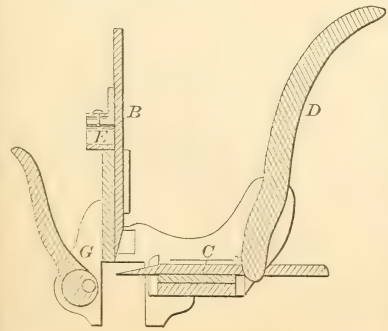



**87006**—J. Serrill—*Toy Savings Bank.*



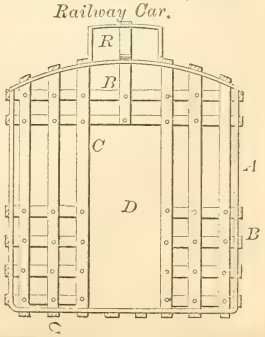

**87008**—D. Snow—*Recess Cutter for Setting Hinges.*



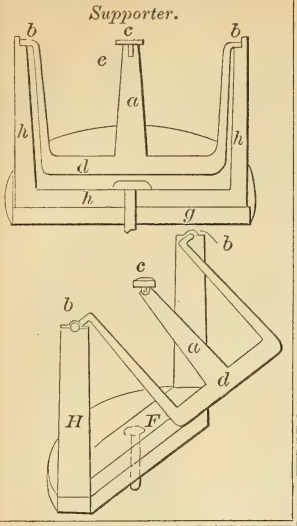




**87007**—T. Smith—*Concrete Pavement.*

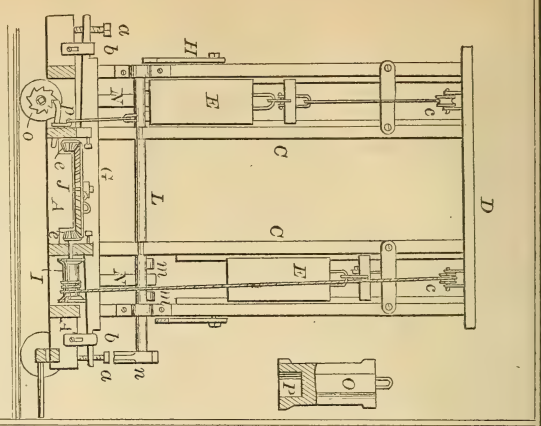
**87002**—Power & Coyne—*Railway Car.*



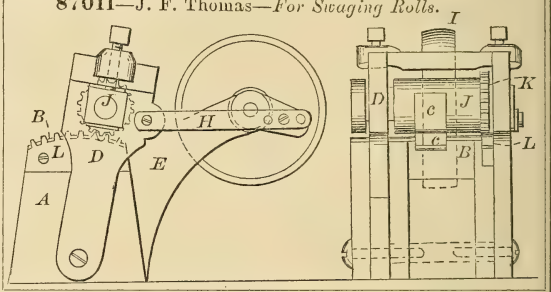
**87009**—C. W. Soule—*Shoe Supporter.*



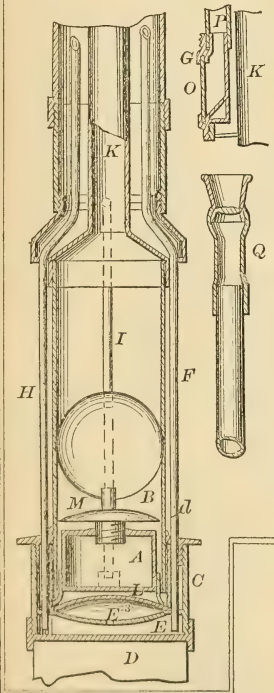
**87010**—Smith & Galbraith—*Pile Driver.*



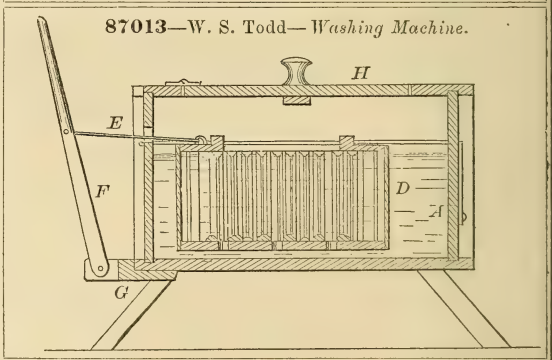
**87011**—J. F. Thomas—*For Swaging Rolls.*



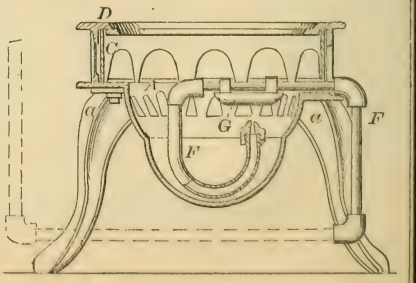
**87012**—H. Thompson—*Submarine Telescopic Lantern.*



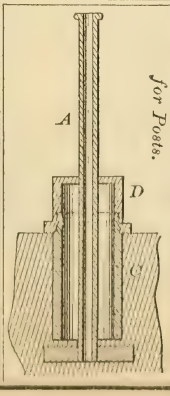
**87013**—W. S. Todd—*Washing Machine.*



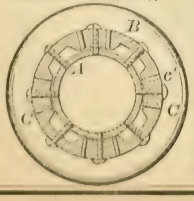
**87014**—W. C. Trowbridge—*Gas Heater.*



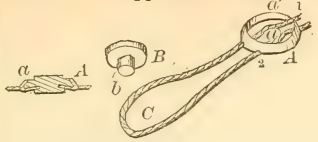
**87015**—S. T. Varian—*Frost Protector for Posts.*



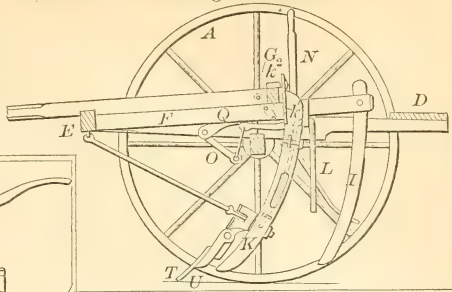
**87016**—Walters & Shaffer—*Column.*



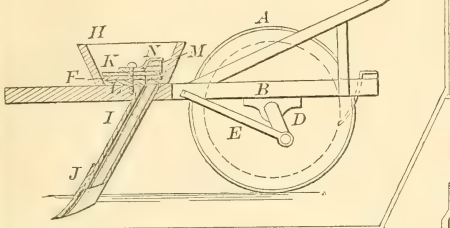
**87017**—J. Wappenstein—*Metallic Seal.*



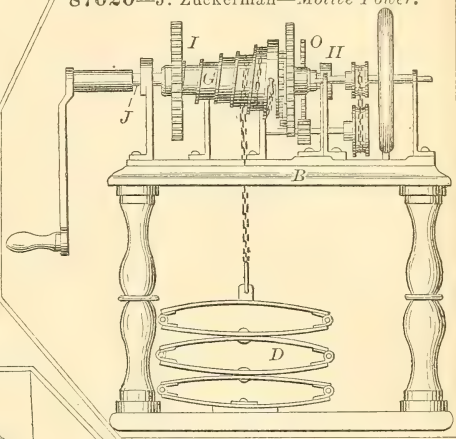

**87019**—B. F. Young—*Cultivator.*



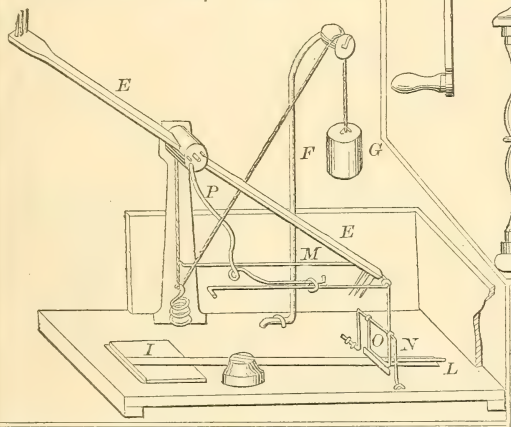

**87018**—D. D. Wood—*Corn Planter.*



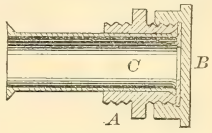

**87020**—J. Zuckerman—*Motive Power.*



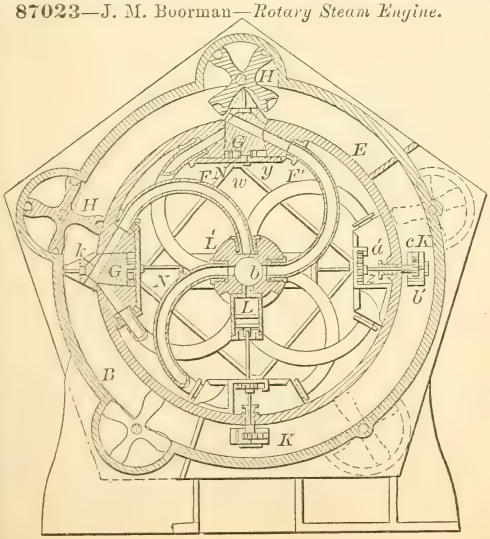

**87022**—T. J. Belford—*Animal Trap.*

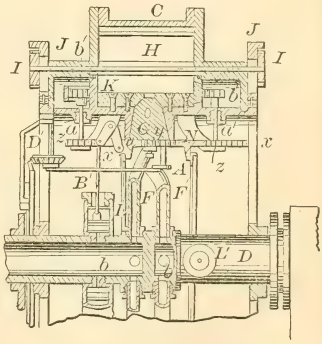


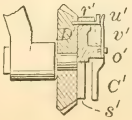

**87021**—G. W. Banker—*Bung Tap.*



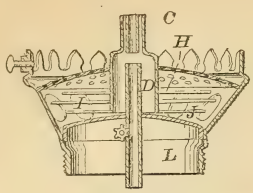

**87023**—J. M. Boorman—*Rotary Steam Engine.*



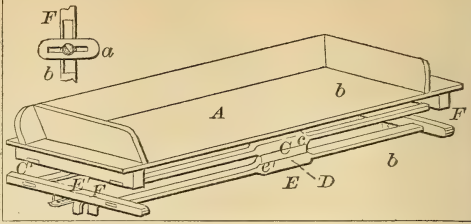



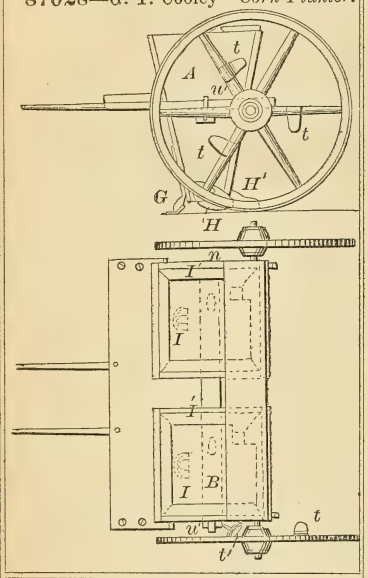
87024—D. T. Briggs—*Lamp Burner.*



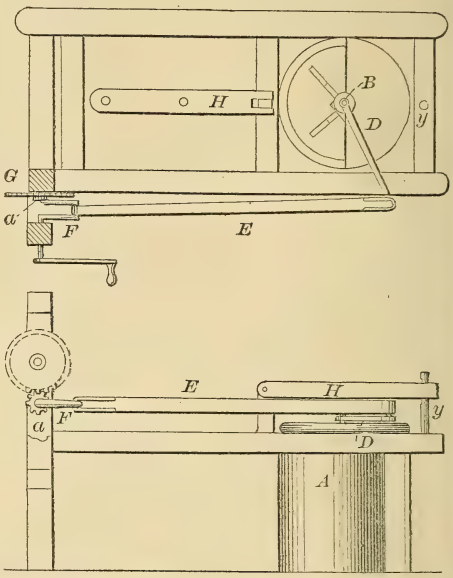

87026—I. H. Chappell—*Wagon Seat.*



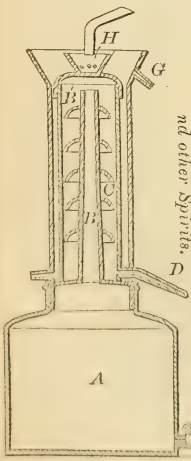

87028—G. T. Cooley—*Corn Planter.*



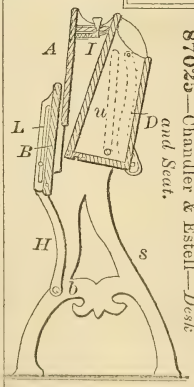

87027—M. Clifton—*Churn.*



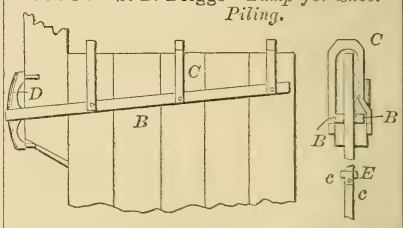

87029—H. G. Dayton—*For Redistilling Whisky and other Spirits.*



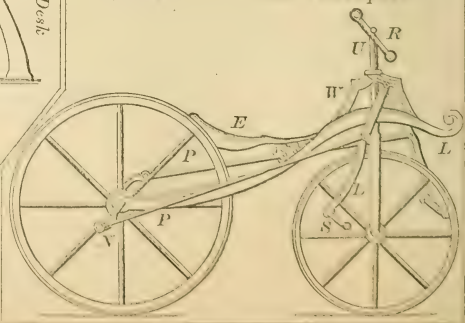

87025—Chandler & Estell—*Desk and Seat.*




87030—S. B. Driggs—*Lamp for Sheet Piling.*

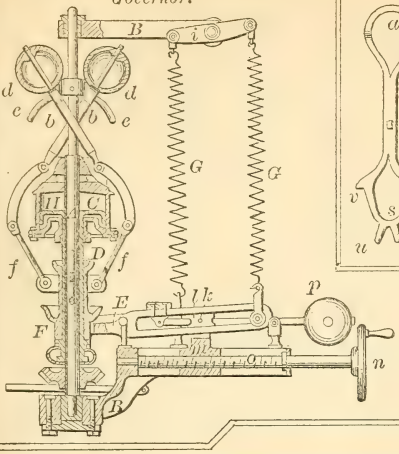



78033—S. F. Estell—*Velocipede.*

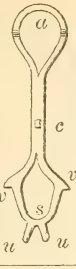



87032—A. E. Elmer—*Construction of Table Cutlery.*

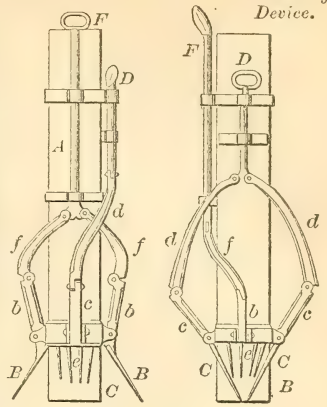
**87034**—J. Farcot—*Steam Engine Governor.*



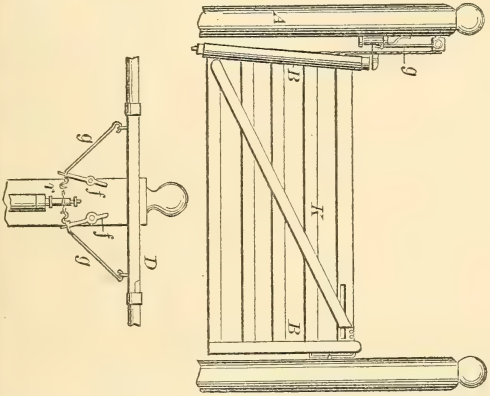
**87035**—D. Fasig—*Hay Knife and Prumer.*



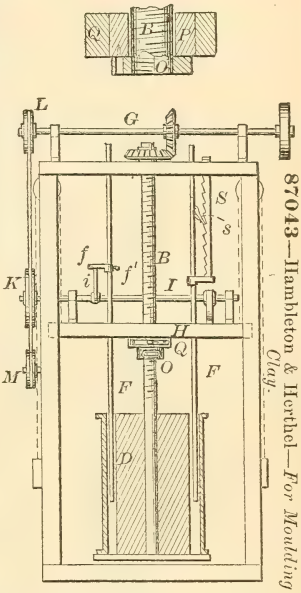
**87037**—J. C. Fuller—*Plant Setting Device.*



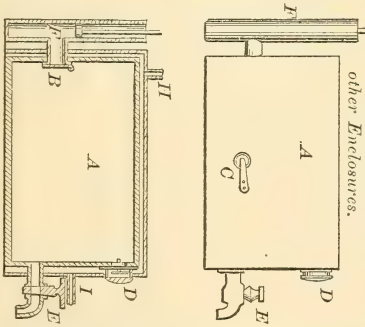
**87040**—S. A. Gould—*Gate.*



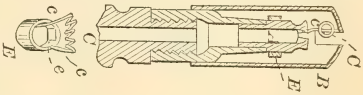
**87043**—Hambleton & Herthel—*For Moulding Clay.*



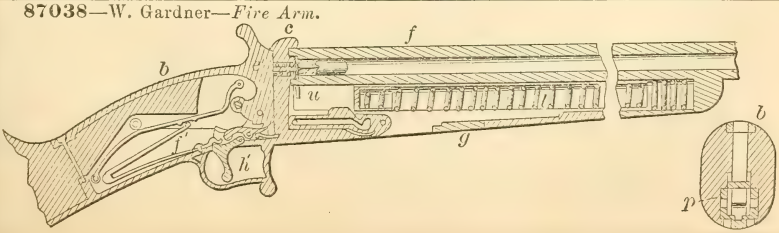
**87041**—E. H. Grant—*Cooling the Atmosphere in Rooms and other Enclosures.*



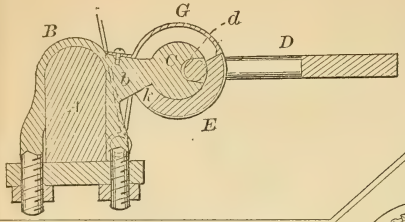
**87039**—S. Gardiner, Jr.—*Gas Burner.*



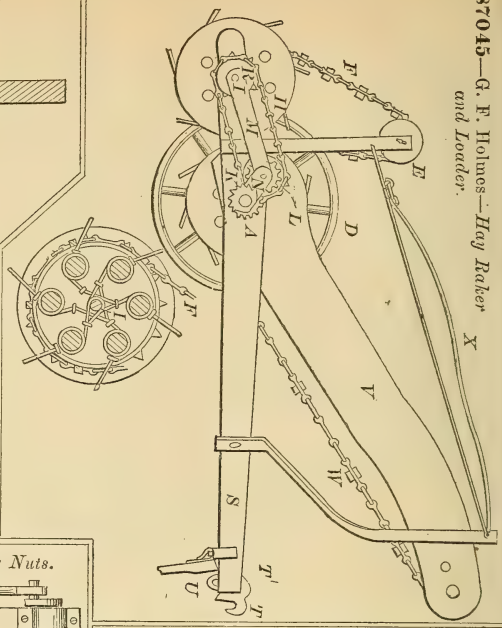
**87038**—W. Gardner—*Fire Arm.*



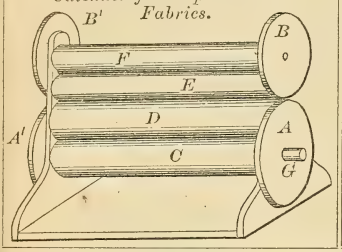
**87047**—M. Howe—*Thill Coupling.*



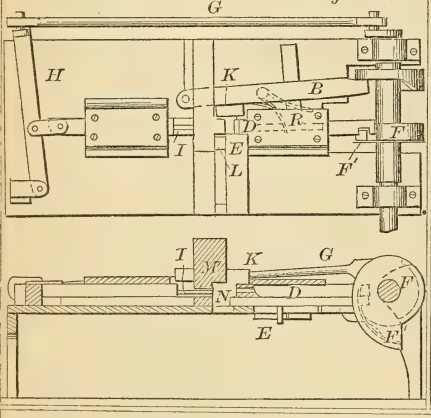

**87045**—G. F. Holmes—*Hay Baker and Loader.*



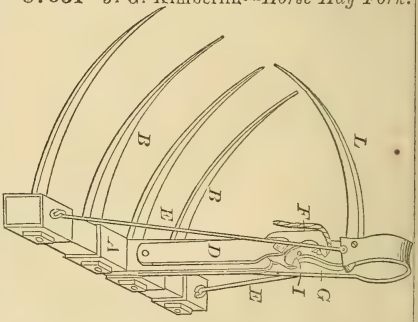

**87044**—Harding & Soley—*Calender for Paper and other Fabrics.*



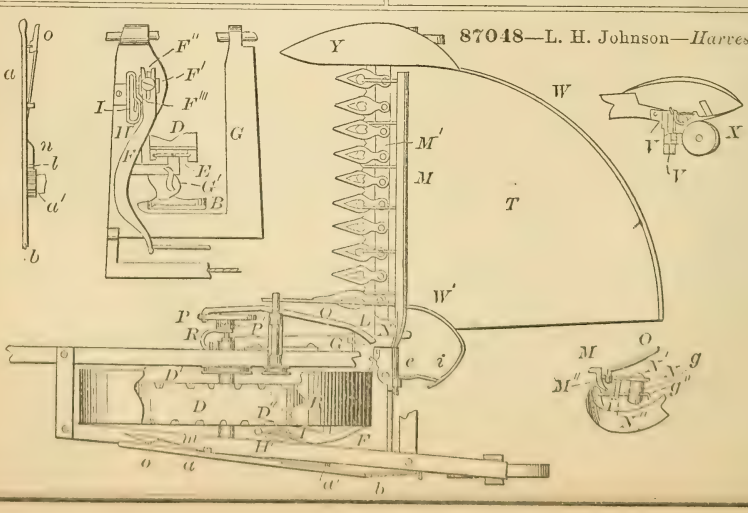

**87046**—W. Horsfall—*For Making Nuts.*



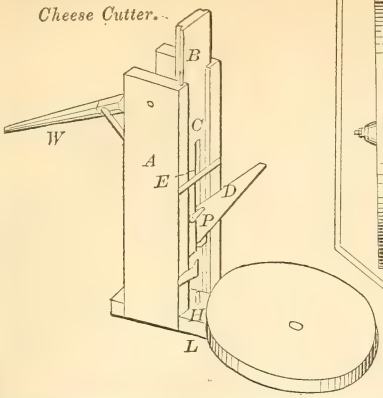

**87051**—J. G. Kimberlin—*Horse Hay Fork.*



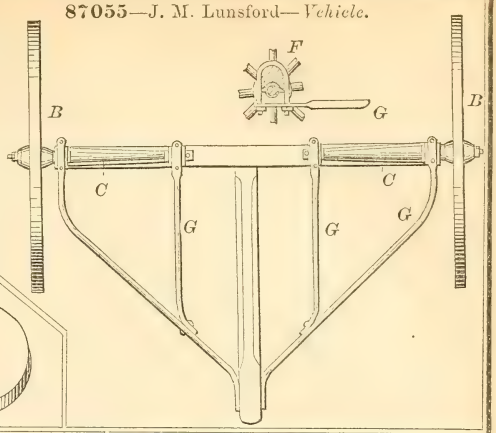

**87048**—L. H. Johnson—*Harvester.*



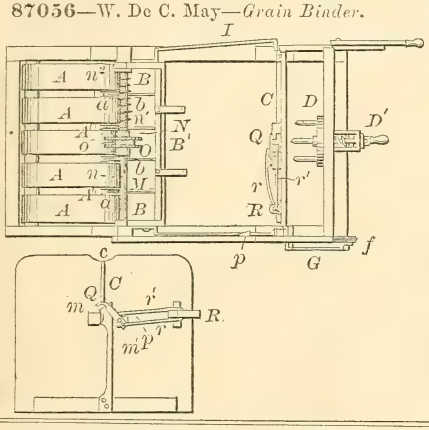
**87049**—G. C. & P. B. Jones—*Cheese Cutter.*



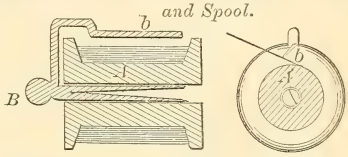

**87055**—J. M. Lunsford—*Vehicle.*



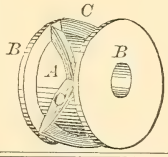

**87056**—W. De C. May—*Grain Binder.*



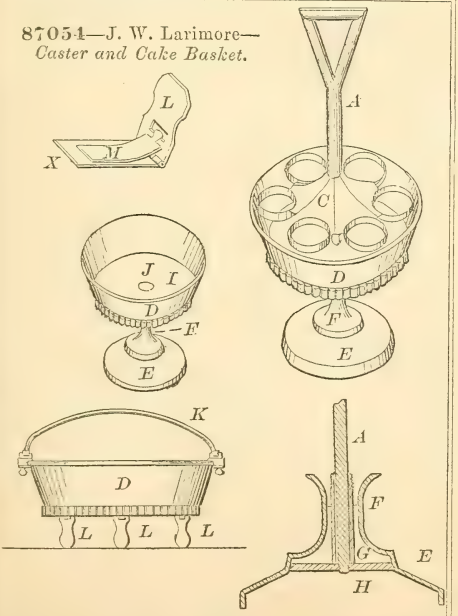

**87057**—W. C. McIntire—*Thread Cutter and Spool.*



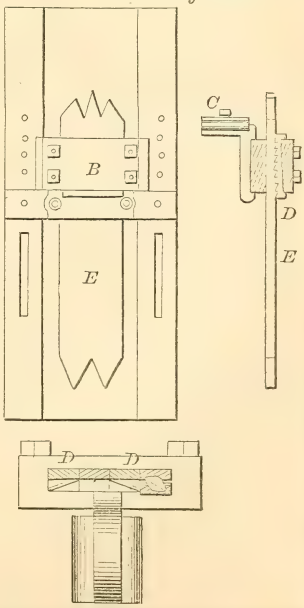

**87052**—B. Kuhns—*Grain Drill.*



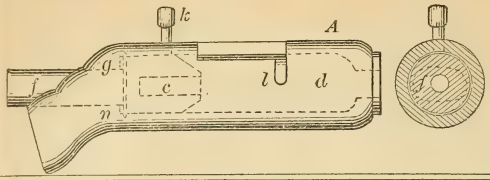

**87054**—J. W. Larimore—*Caster and Cake Basket.*



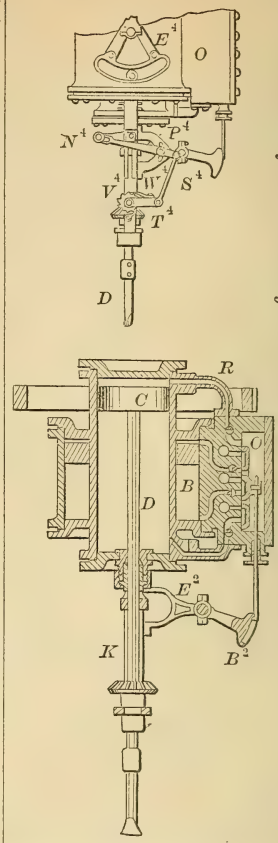

**87053**—E. G. Lamson—*For Cutting and Channeling Stone.*



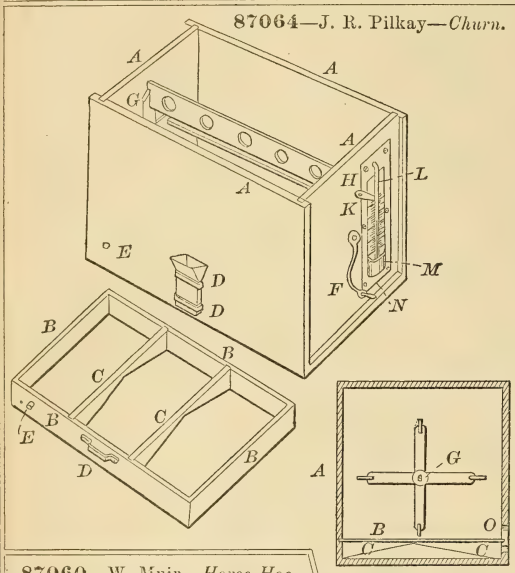
87058—L. A. Merriam—*Fire Arm.*



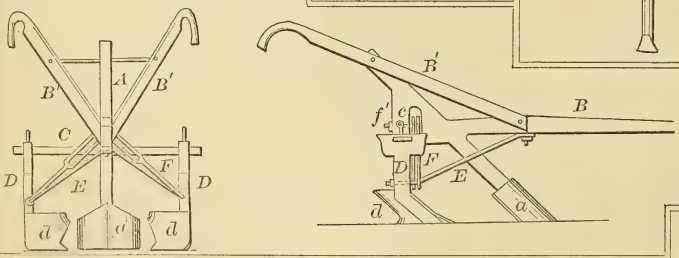

87061—R. Nutty—*Rock Drilling Machine.*



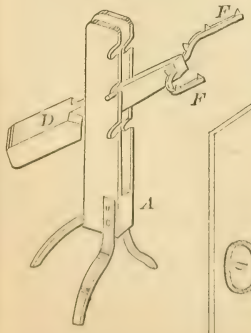

87064—J. R. Pilkay—*Churn.*




87060—W. Muir—*Horse Hoe.*

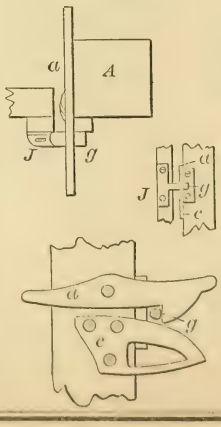



87059—P. Meyers—*Bag Holder.*

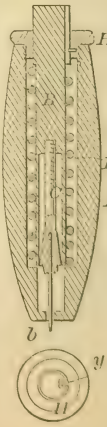



87063—C. W. Palmer—*Shoe.*

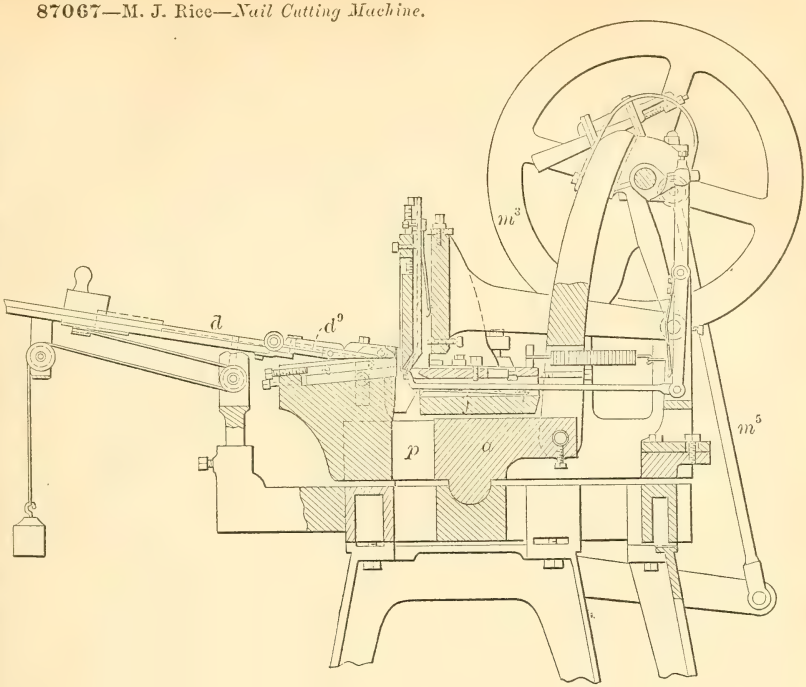
87065—W. Redhead—*Gate Latch.*

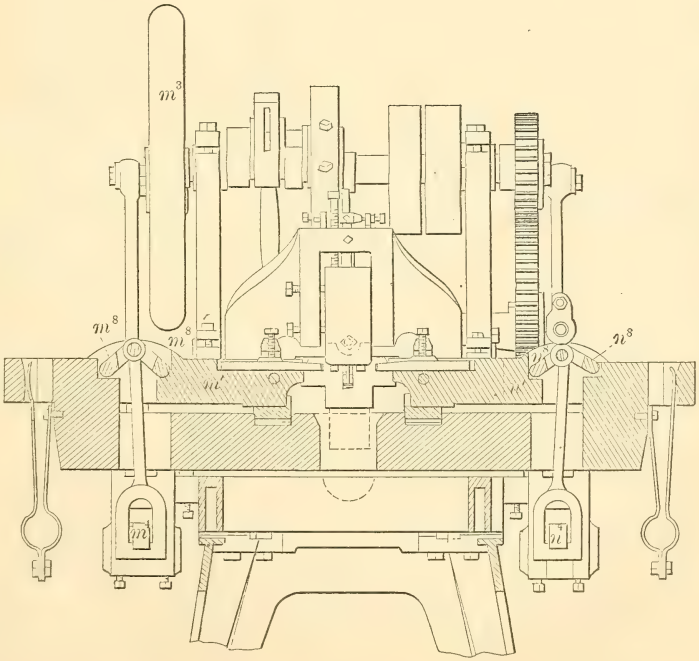



87062—G. B. Paine—*Pegging Awl.*

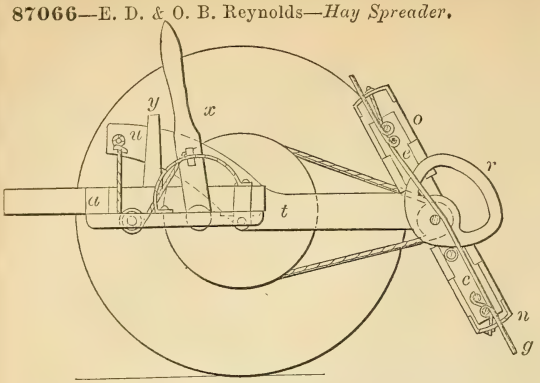


87067—M. J. Rice—*Nail Cutting Machine.*

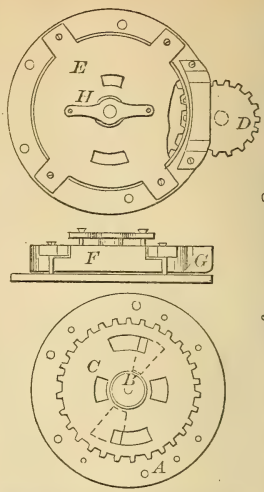


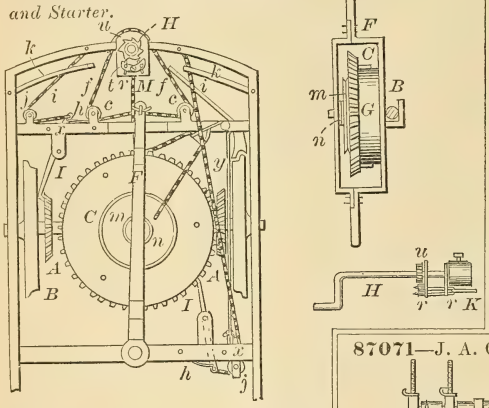
**87066**—E. D. & O. B. Reynolds—*Hay Spreader.*



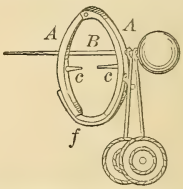

**87073**—W. G. Savage—*Steam Engine.*



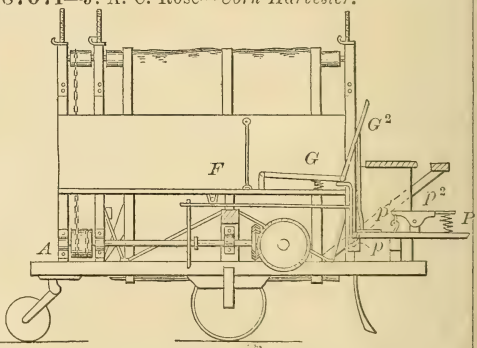

**87068**—I. Rider—*Car Brake and Starter.*



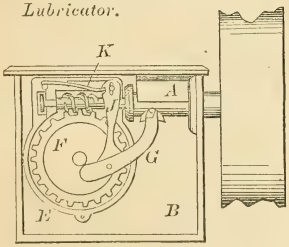

**87072**—C. Rowland—*Hair Clasp.*



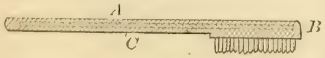

**87071**—J. A. C. Rose—*Corn Harvester.*



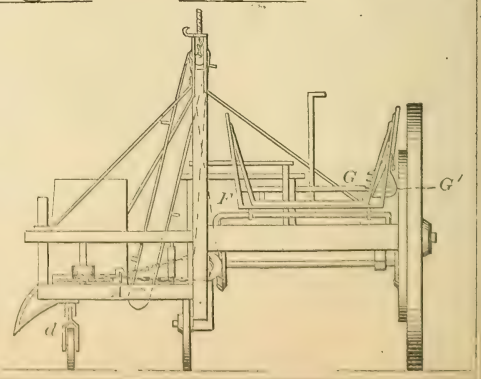

**87069**—C. M. Ried—*Axle Box Lubricator.*



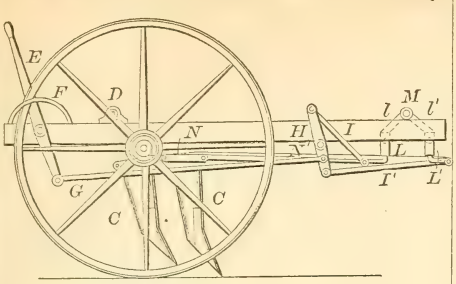

**87070**—C. Roberts—*Tooth Brush.*



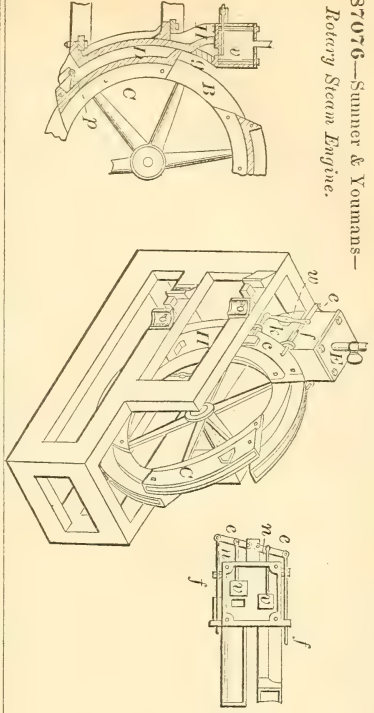

**87075**—W. F. Sherman—*Repairing Crucibles.*



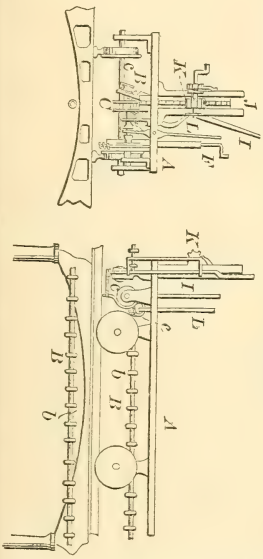
**87074**—P. I. & P. Schmitt—*Drill Teeth Setting.*



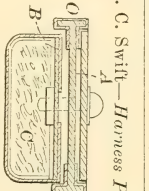

**87076**—Sumner & Youmans—*Rotary Steam Engine.*



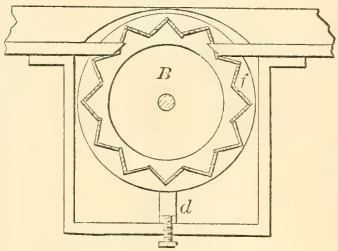

**87077**—Sutton & Crowell—*Elevated Railway.*




**87078**—H. C. Swift—*Harness Pad.*

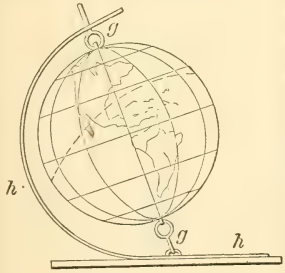


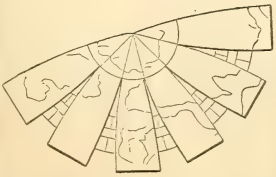

**87079**—H. Thomas—*Lubricator.*



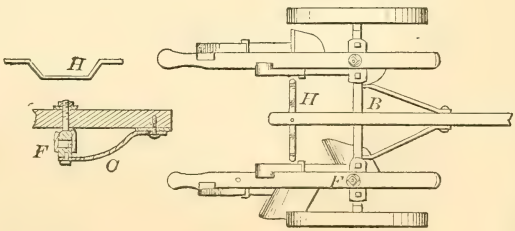

**87081**—C. Towns—*Belt Clasp.*

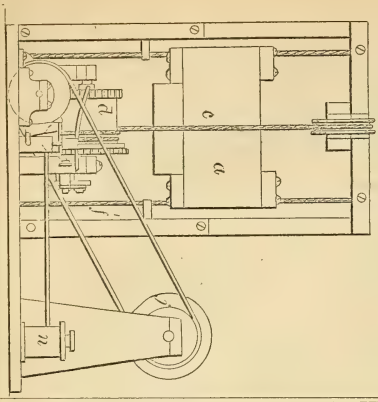
**87082**—D. Townsend—*Folding Card Globe.*

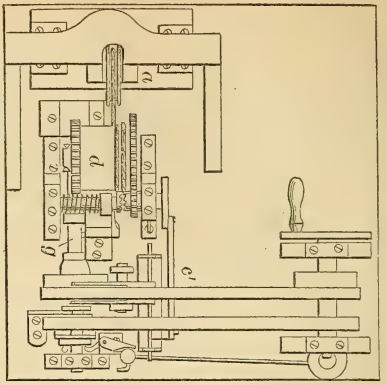


**87080**—J. B. Tipton—*Cultivator.*

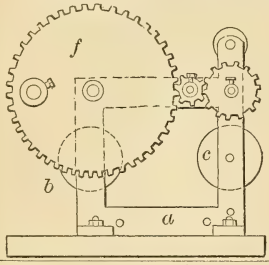


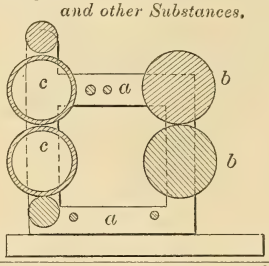




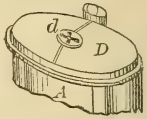
87083—O. Tufts, Jr.—*Elevator.*

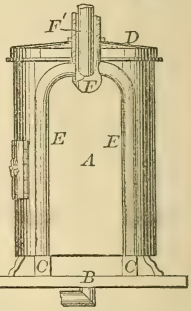
87087—G. S. Dwight—*For Coating Cloth with India Rubber and other Substances.*



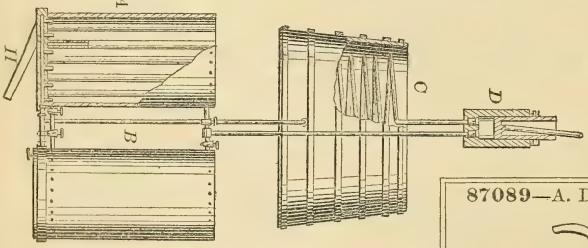


87085—J. S. White—*Stove.*

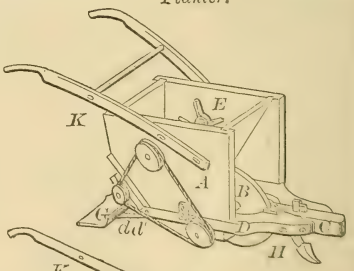


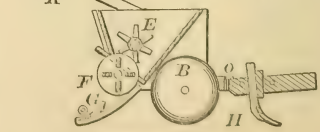


87084—P. H. V. Weyde—*For the Manufacture of Ice.*

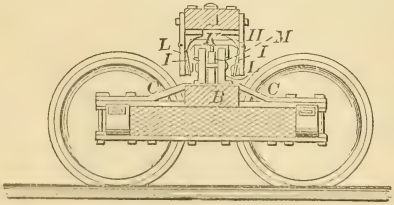


87089—A. D. Brown, Sr.—*Cotton Seed Planter.*

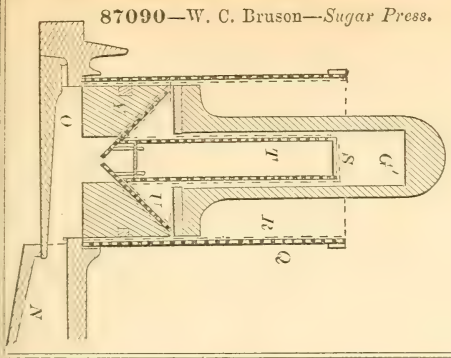




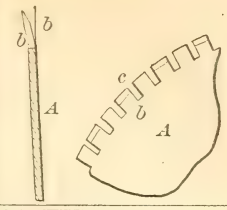
87086—T. L. Wilson—*Railway Car Truck.*



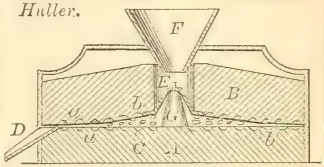
**87090**—W. C. Bruson—*Sugar Press.*



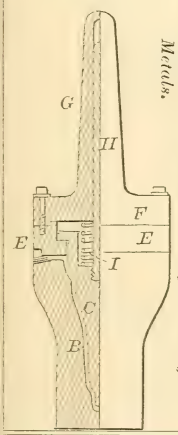
**87092**—P. Cook—*Saw Teeth.*



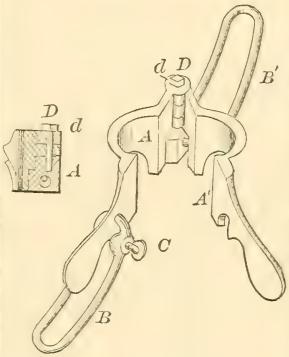
**87093**—A. Crawford—*Buckwheat Huller.*



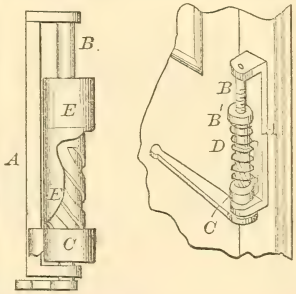
**87091**—E. N. Cleaves—*Mould for Casting Metals.*



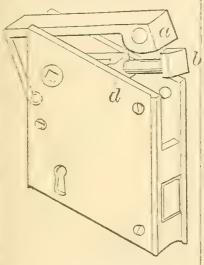
**87097**—D. Fisher—*Clamp for Elevating Well Tubes.*



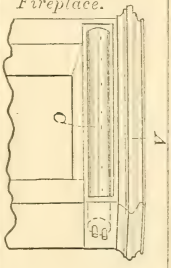
**87095**—W. Duncan—*Door Spring.*



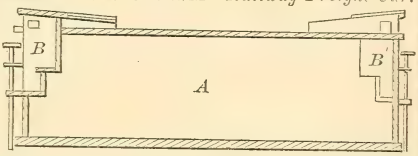
**87096**—B. Erbe—*Knob Latch.*



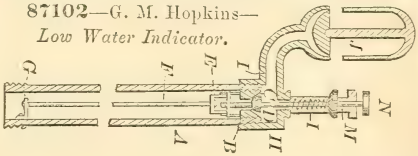
**87099**—E. Hampton—*Fireplace.*



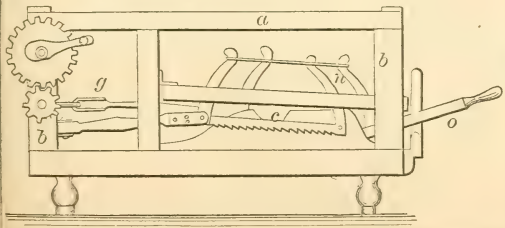
**87098**—W. A. Goodwin—*Railway Freight Car.*



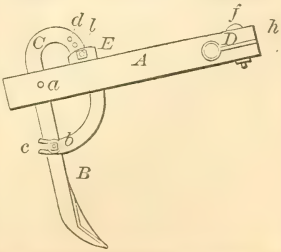
**87102**—G. M. Hopkins—*Low Water Indicator.*



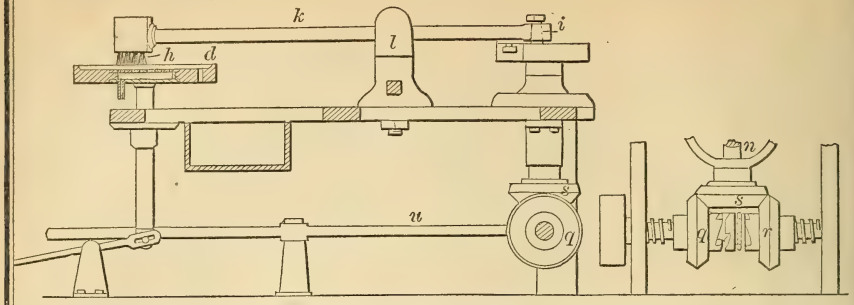
**87100**—G. M. D. & B. E. Harreld—*Wood Sawing Machine.*



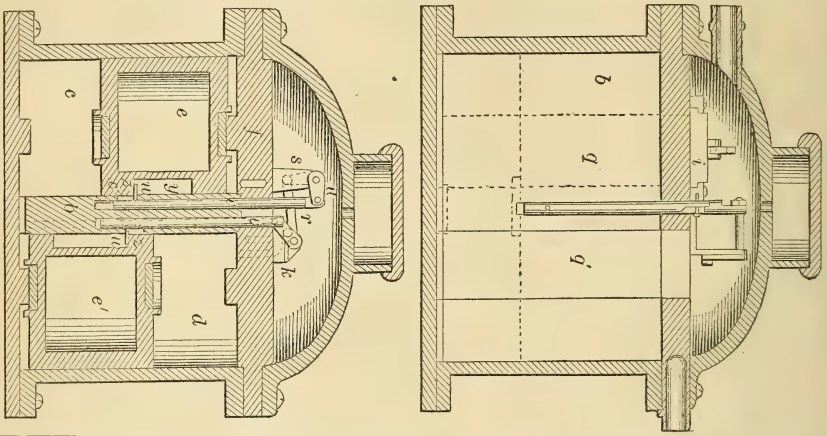
**87101**—J. Harris—*Cultivator.*



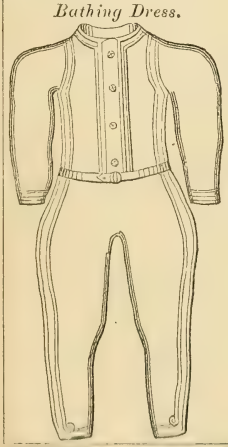
**87103**—J. W. Hopkins—*For Brushing Hats.*



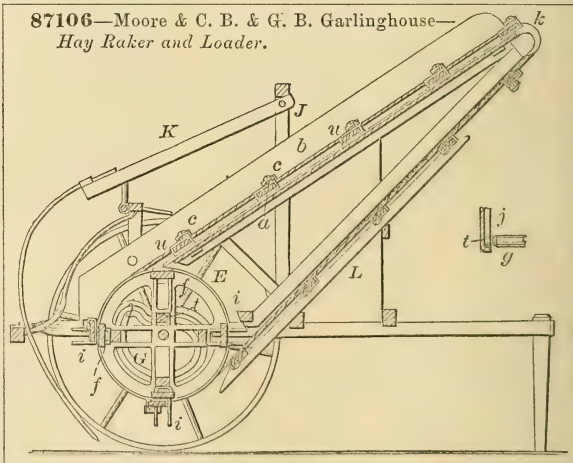

**87104**—H. B. Leach—*Fluid Meter.*



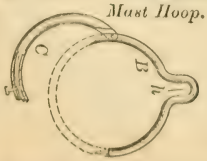

**87107**—O. Morse—*Bathing Dress.*



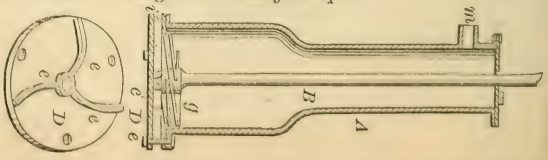
**87106**—Moore & C. B. & G. B. Garlinghouse—*Hay Raker and Loader.*



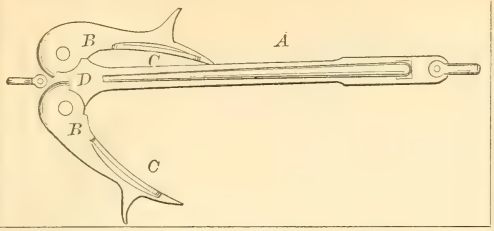

**87105**—W. T. Maddocks—*Mast Hoop.*



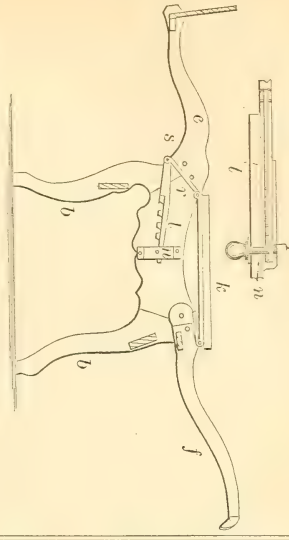

**87108**—J. Naughton—*Rotary Pump.*



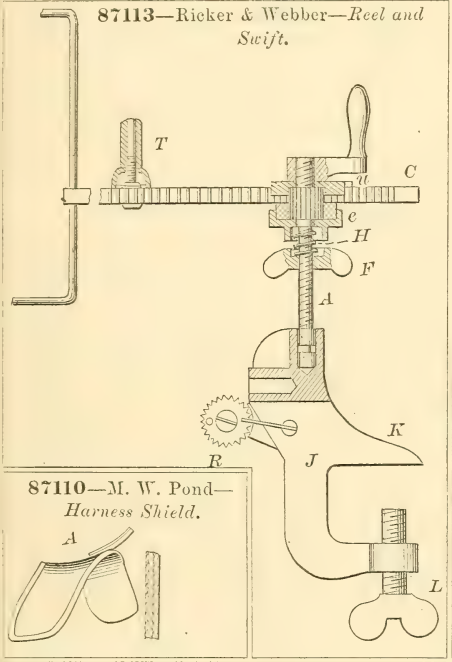
**87109**—G. Norton—*Anchor.*



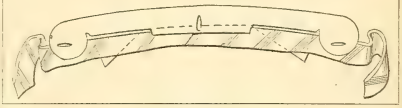

**87111**—E. C. Ranks—*Chair.*



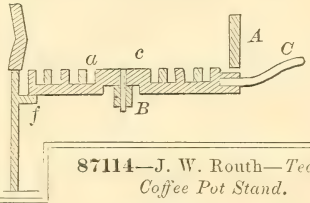

**87113**—Ricker & Webber—*Reel and Swift.*




**87116**—C. W. Saladee—*Collar.*



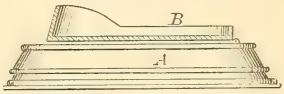
**87112**—E. S. Renwick—*Grate.*



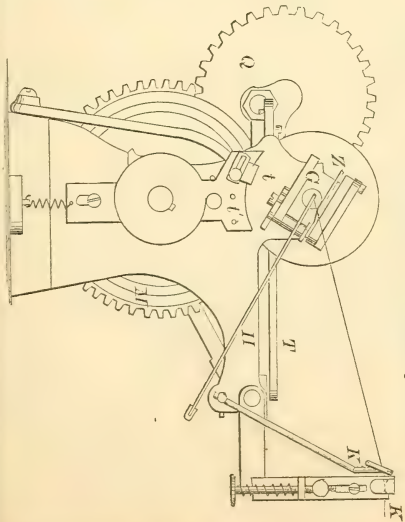

**87110**—M. W. Pond—*Harness Shield.*



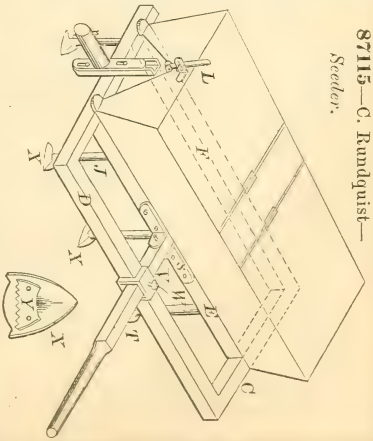

**87114**—J. W. Routh—*Tea and Coffee Pot Stand.*



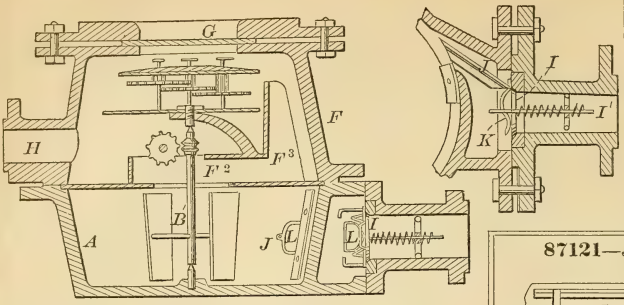

**87117**—W. & A. Shedlock—*For Winding Braid.*



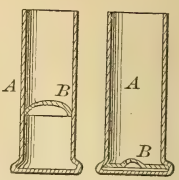

**87115**—C. Rundquist—*Seeder.*



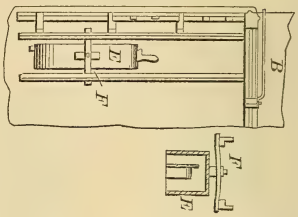
**87118**—J. Sheffield—*Fluid Meter.*



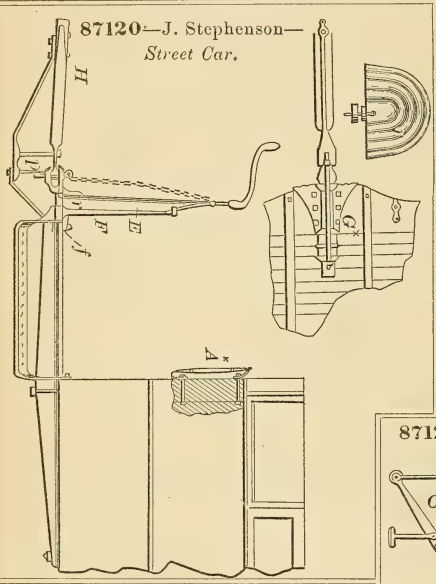

**87125**—W. Tibbals—*Cartridge Case.*



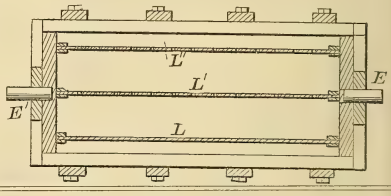

**87121**—J. Stephenson—*Street Car.*



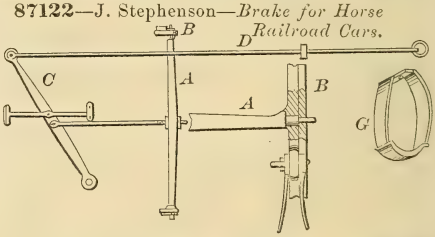

**87120**—J. Stephenson—*Street Car.*



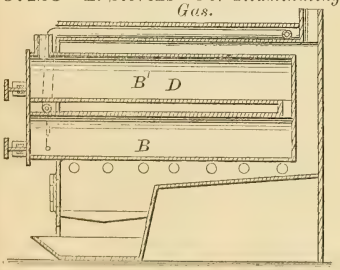

**87119**—S. Snyder—*Tanners' Leach.*




**87122**—J. Stephenson—*Brake for Horse Railroad Cars.*




**87123**—L. Stevens—*For Illuminating Gas.*




**87126**—T. Walter—*Safety Guard for Railway Cars.*

Fig. 1

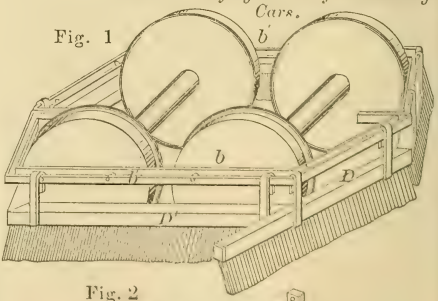
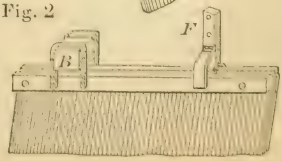
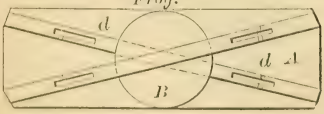


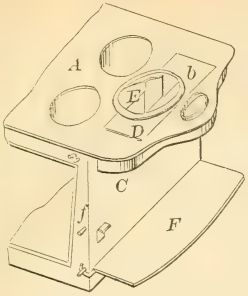

Fig. 2



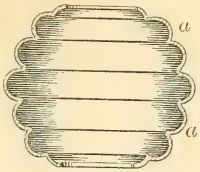

**87124**—A. B. Thompson—*Railway Frog.*



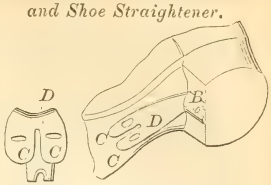
**87127**—W. H. Whitehead—*Stove.*



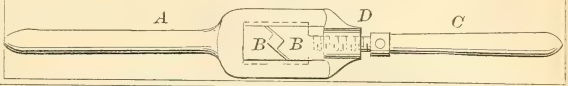

**87128**—H. Whitney—*Lamp Shade.*



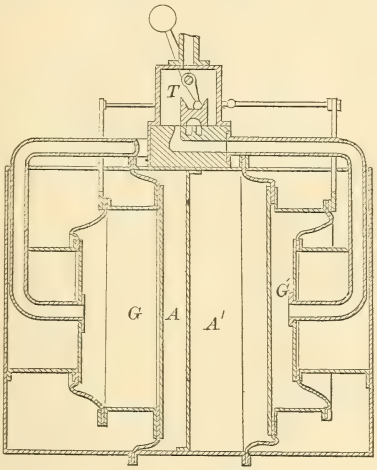

**87129**—G. W. Wilford—*Boot and Shoe Straightener.*




**87133**—B. F. Bee—*Wrench.*




**87130**—D'Hurcourt & Armand—*For Producing Heat and Light from Gases.*



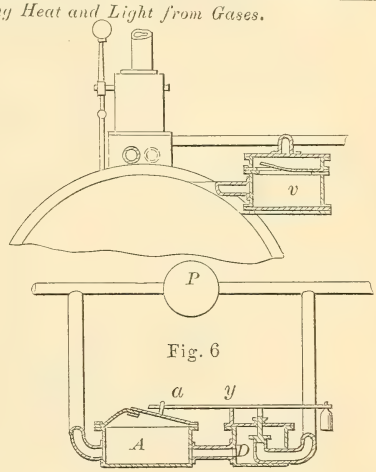
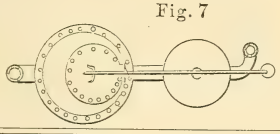
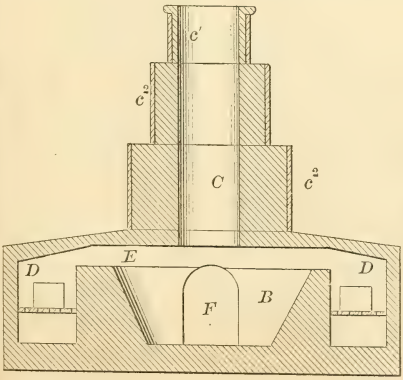




Fig. 6

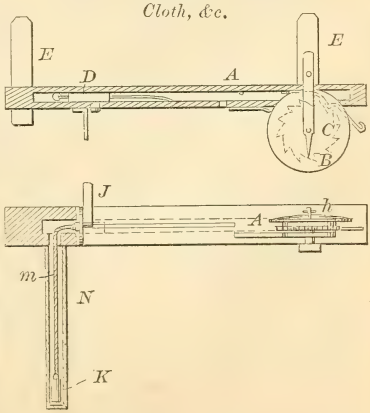
Fig. 7



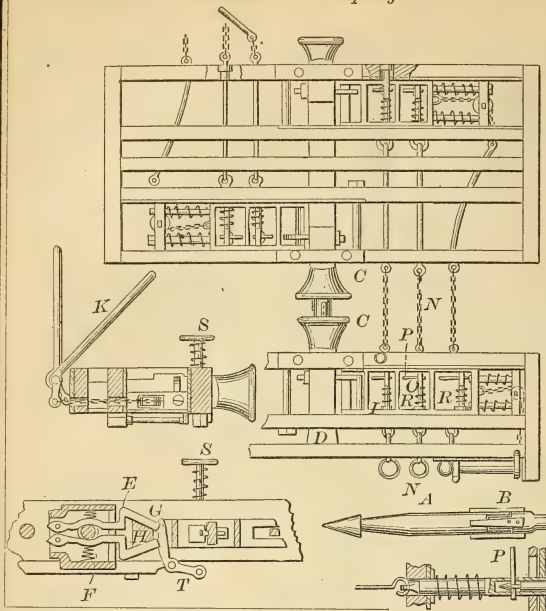
**87131**—G. Atkins—*Lime Kiln.*



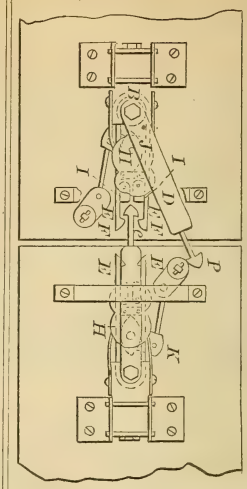

**87134**—T. Bisbing—*For Measuring Cloth, &c.*



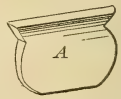
**87135**—W. J. Blackman—*Car Coupling.*



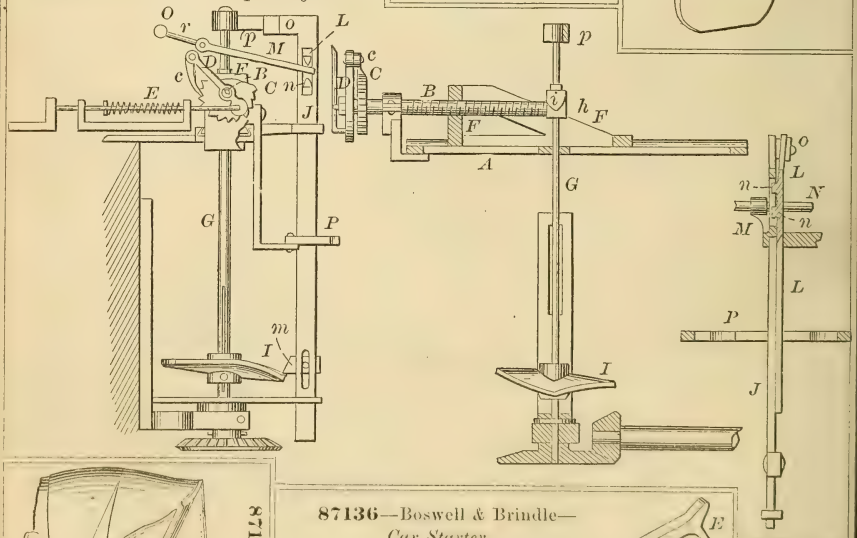

**87142**—Caldwell & Wilcox—*Car Coupling.*



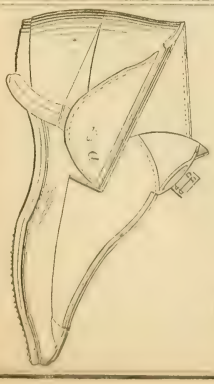

**87141**—B. Butler—*Wedge for Axe Helves.*



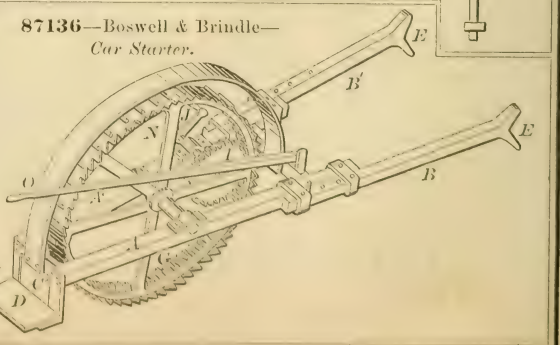

**87138**—O. Brothers—*Spinning Jack.*



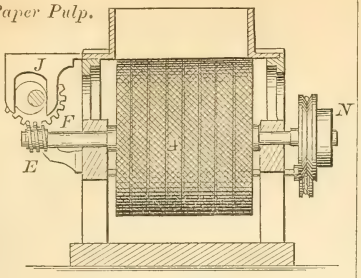

**87137**—A. O. Bourn—*Overshoe.*



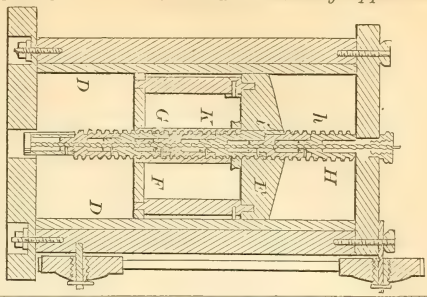
**87136**—Boswell & Brindle—*Car Starter.*

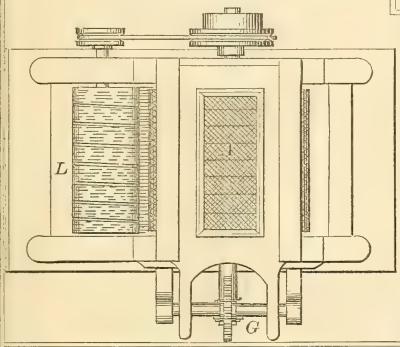


**87139**—F. Burghardt—*Manufacture of Paper Pulp.*

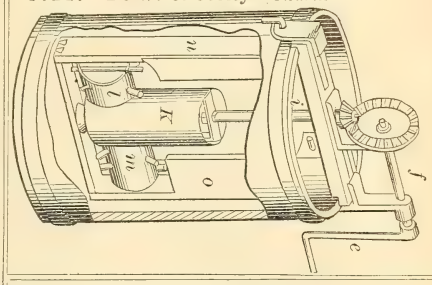



**87143**—D. H. Chamberlain—*Hoisting Apparatus.*

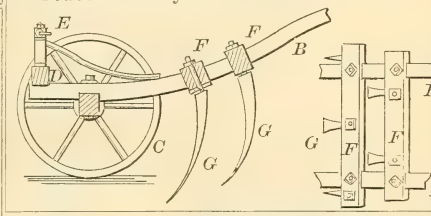


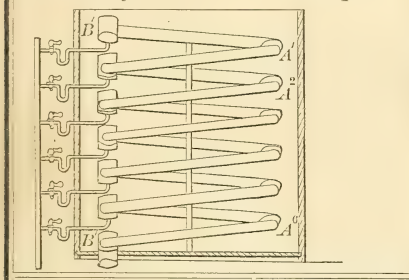

**87147**—De W. C. Cooley—*Churn.*



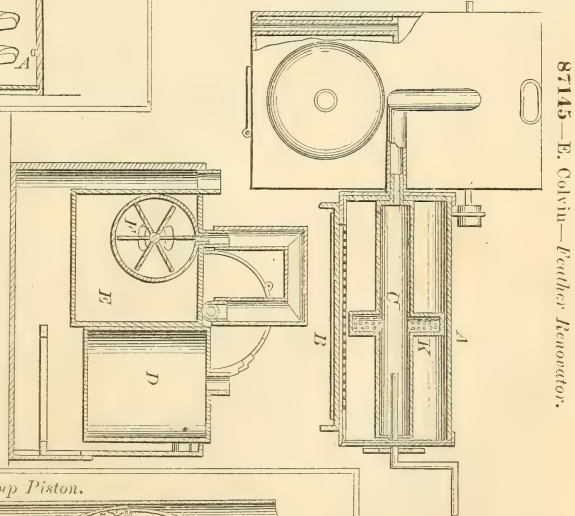

**87151**—W. Day—*Cultivator.*



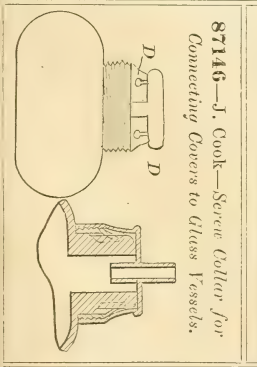

**87144**—J. F. Collins—*Rectifier and Condenser for Alcoholic and other Spirits.*



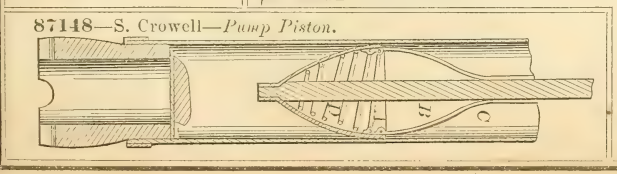

**87145**—E. Colvin—*Feather Renovator.*



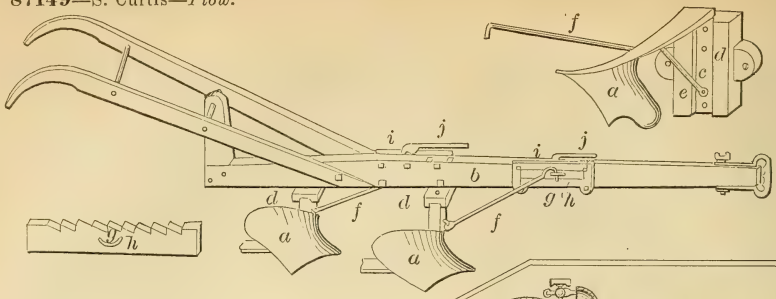

**87146**—J. Cook—*Screw Collar for Connecting Covers to Glass Vessels.*



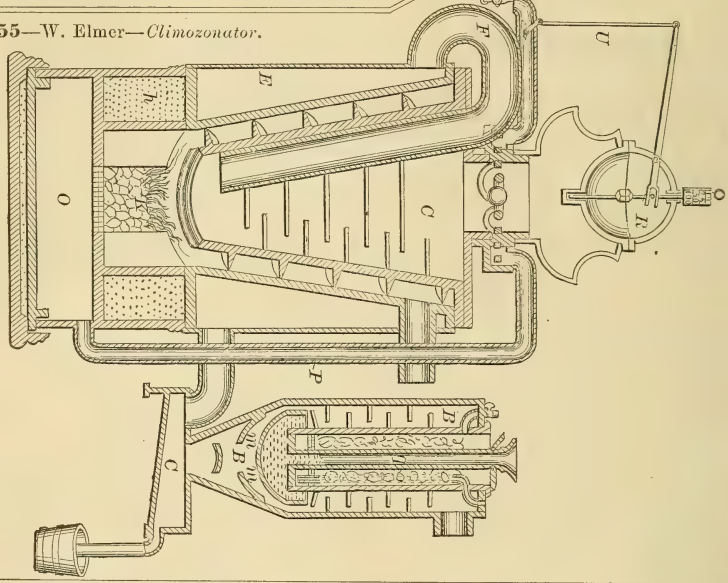

**87148**—S. Crowell—*Pump Piston.*



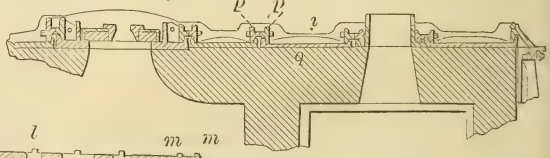
**87149**—S. Curtis—*Plow.*




**87155**—W. Elmer—*Climozonator.*

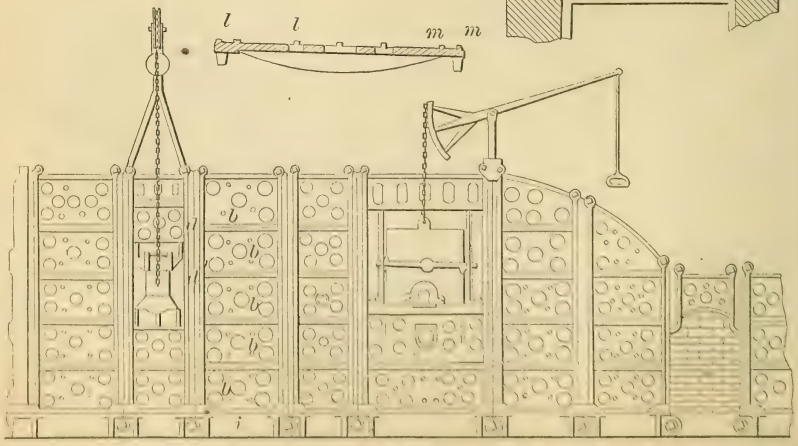



**87152**—W. F. Dufee—*Casing for Reverberatory and other Furnaces.*

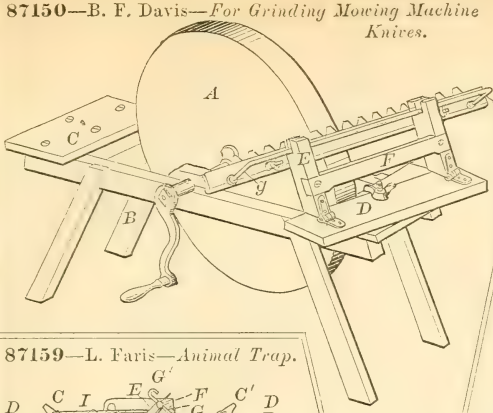




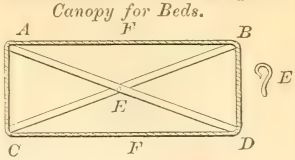




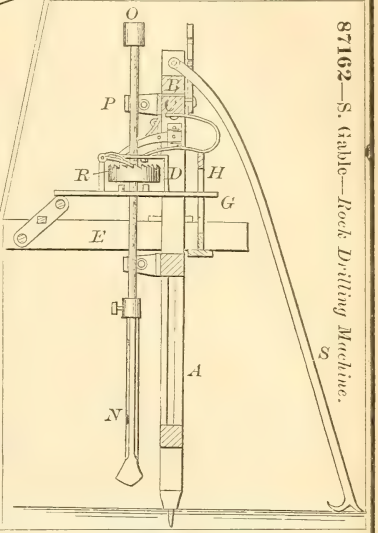
**87150**—B. F. Davis—*For Grinding Mowing Machine Knives.*



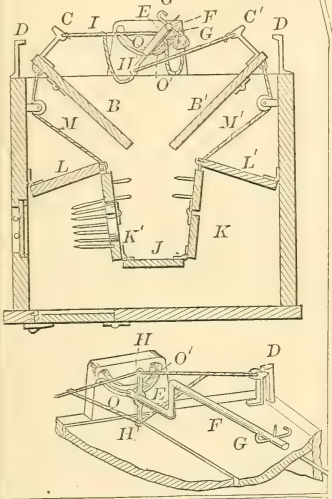

**87154**—W. B. Ellis—*Mosquito Canopy for Beds.*



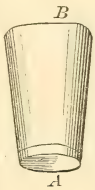

**87162**—S. Gable—*Rock Drilling Machine.*



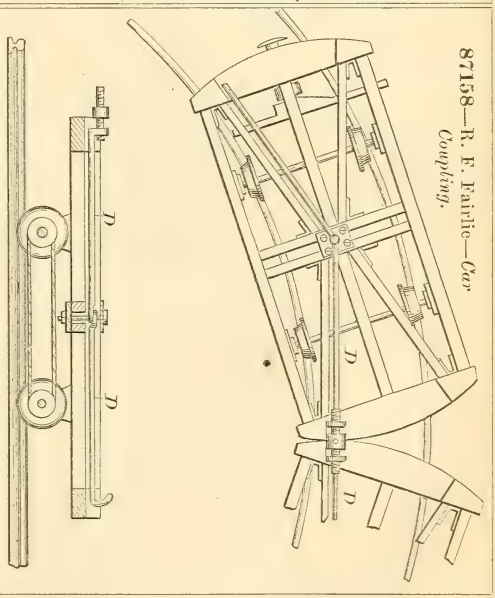

**87159**—L. Faris—*Animal Trap.*



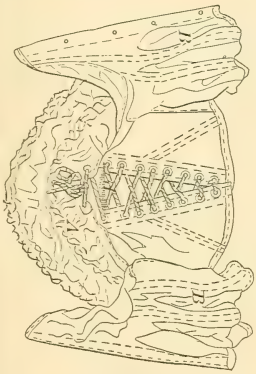

**87163**—P. Geier—*Bung.*




**87158**—R. F. Fairlie—*Car Coupling.*

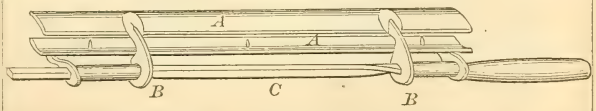



**87160**—S. B. Fisler—*Corset.*

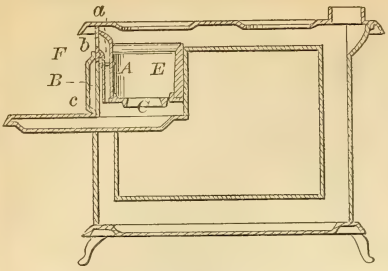


**87164**—J. J. Glitenan—*Hat.*

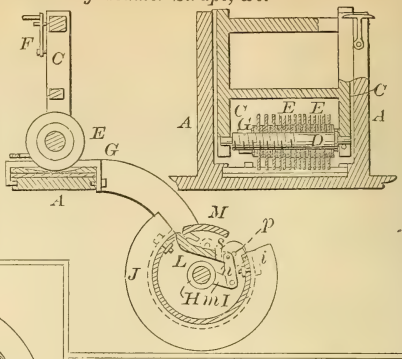
**87161**—J. O. Foster—*Paper File.*



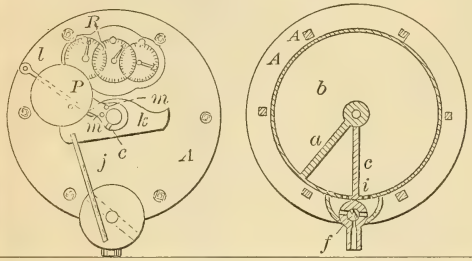
**87165**—C. O. Greene—*Stove.*



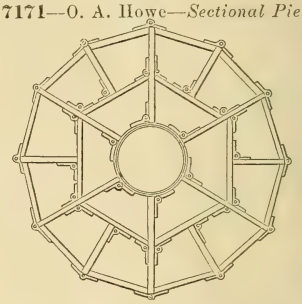

**87167**—Haberbush, Bentz & Vogel—*For Cutting Leather Straps, &c.*



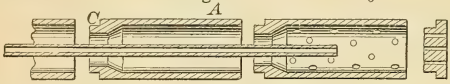

**87166**—Griggs & Barrows—*Water Meter.*



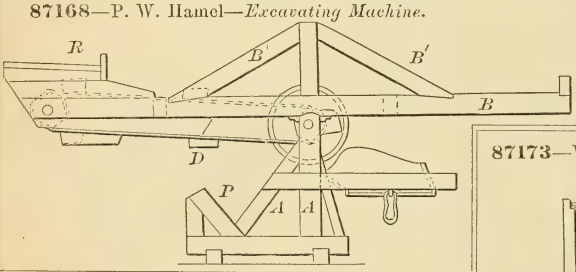

**87171**—O. A. Howe—*Sectional Pier.*



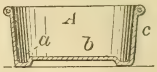
**87172**—W. T. Huntington—*Well Curbing.*



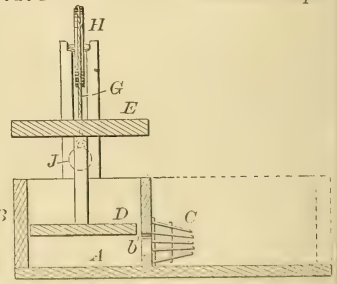

**87168**—P. W. Hamel—*Excavating Machine.*



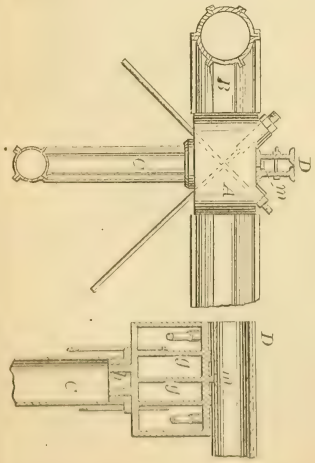

**87170**—C. Hodgetts—*Metal Pan.*



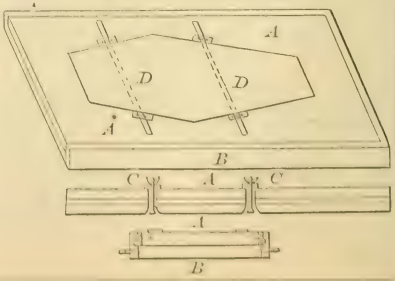

**87173**—W. B. Jarvis—*Animal Trap.*



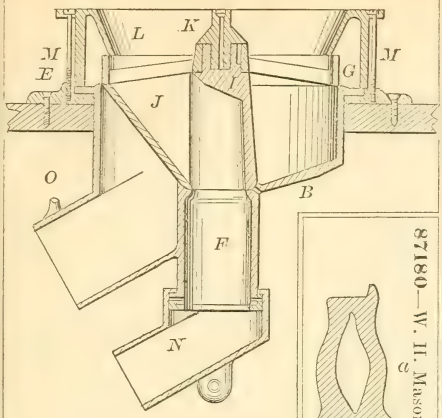

**87174**—C. Kellogg—*Bridge.*



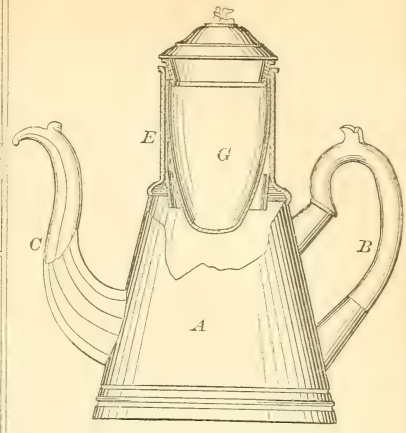

**87175**—J. F. Kinback—*Hearse.*



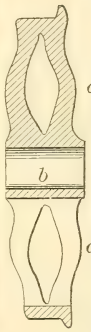
**87176**—F. Klinkerman—*Toll Collector for Grist Mills.*



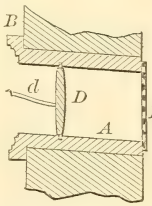

**87179**—J. L. Labiaux—*Coffee Pot.*



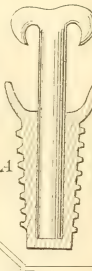

**87180**—W. H. Mason—*Railway Car Wheel.*



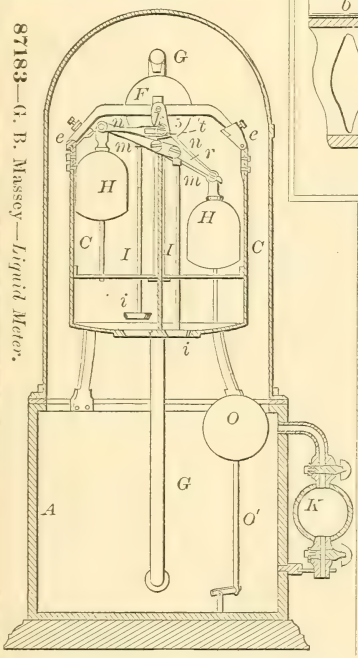

**87178**—O. Krakovicz—*Ventilator.*



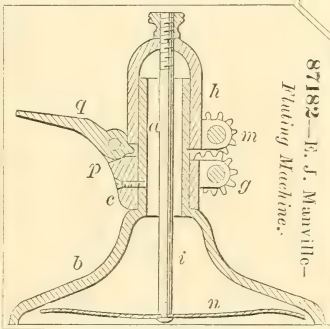

**87187**—J. M. Merrick, Jr.—*Insulator for Telegraph Conductors.*



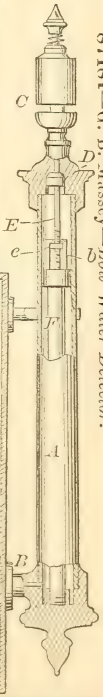

**87183**—G. B. Massey—*Liquid Meter.*



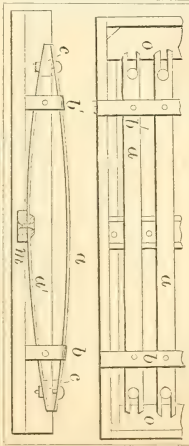

**87182**—E. J. Manville—*Plating Machine.*



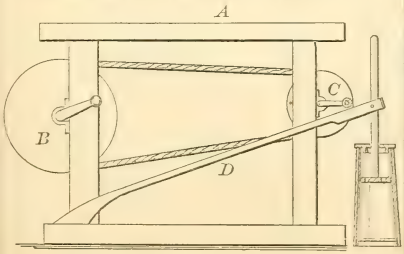

**87181**—G. B. Massey—*Low Water Detector.*



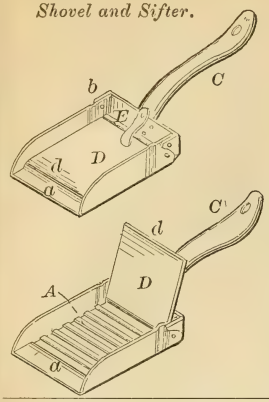

**87184**—F. B. Mattson—*Spring Bed Bottom.*



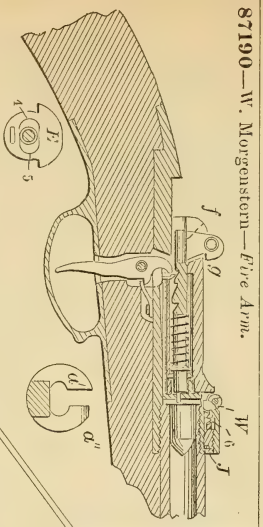

**87185**—W. D. McFadden—*Churn.*



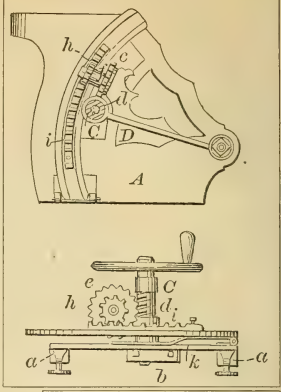
**87186**—W. C. McGill—*Ash Shovel and Sifter.*



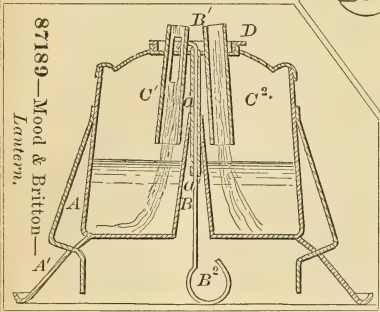

**87190**—W. Morgenstern—*Fire Arm.*



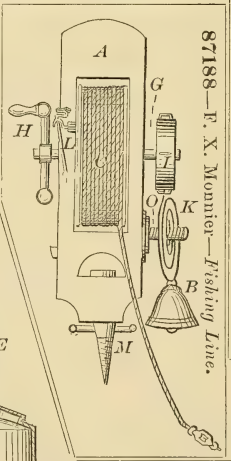

**87191**—W. Newcomb—*Saw Gummer.*



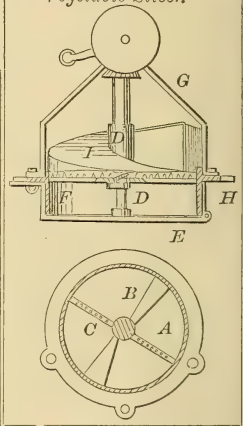

**87189**—Mood & Britton—*Lantern.*



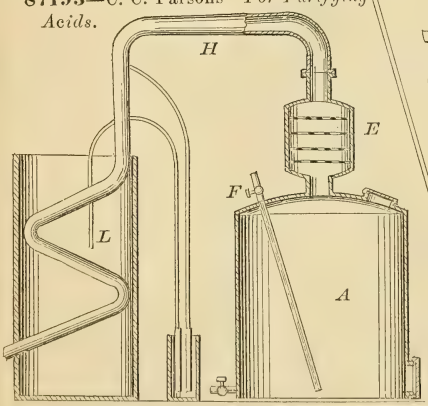

**87188**—E. X. Monnier—*Fishing Line.*

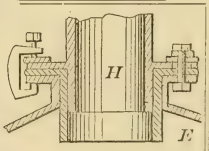



**87195**—G. B. Peers—*Vegetable Slicer.*



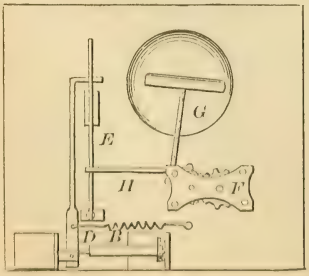

**87193**—C. C. Parsons—*For Purifying Acids.*



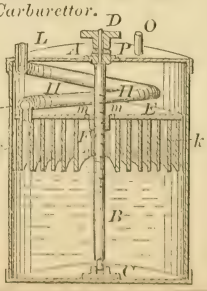




**87198**—E. S. Pierce—*For Cutting Screw Threads.*

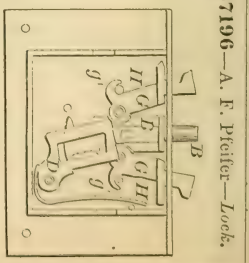
**87194**—I. T. Pease—*Fire Alarm.*



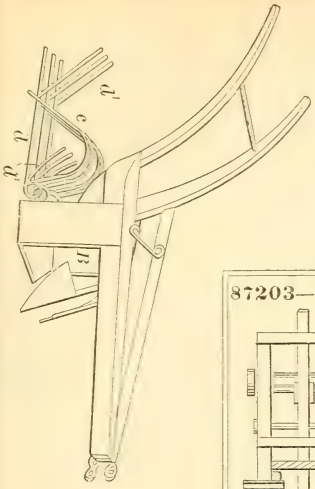

**87192**—H M. Paine—*Carburettor.*



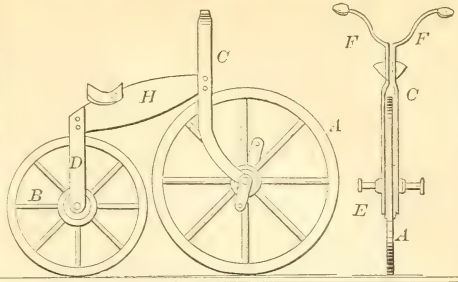

**87196**—A. F. Pfeifer—*Lock.*



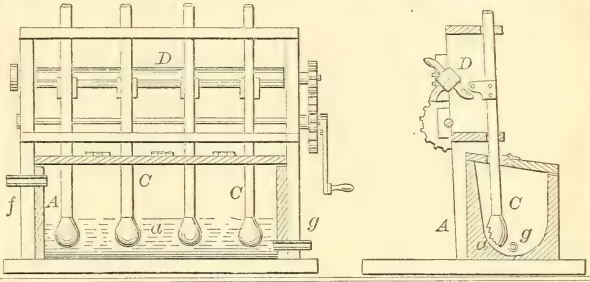
**87197**—E. Phillips—*Potato Digger.*



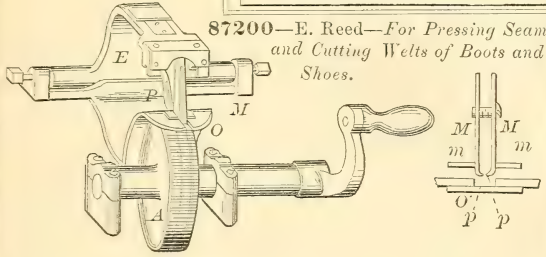

**87204**—C. H. Robinson—*Velocipede.*



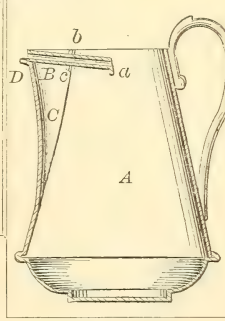

**87203**—L. F. Robertson—*For Treating Hides, Skins and Leather.*



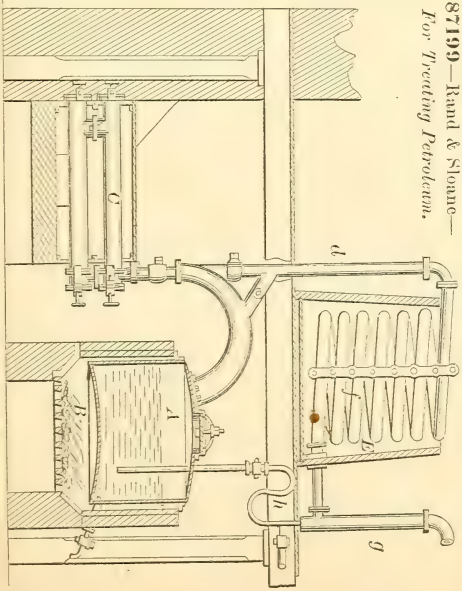

**87200**—E. Reed—*For Pressing Seams and Cutting Welts of Boots and Shoes.*



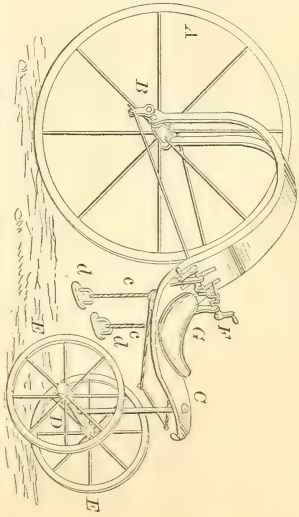

**87201**—C. Reistle—*Molasses Pitcher.*



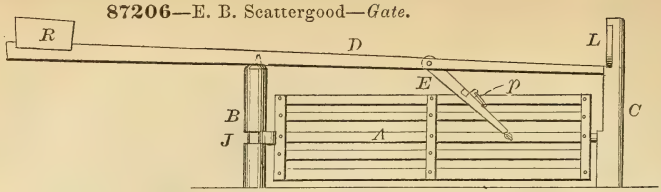

**87199**—Rand & Sloane—*For Treating Petroleum.*



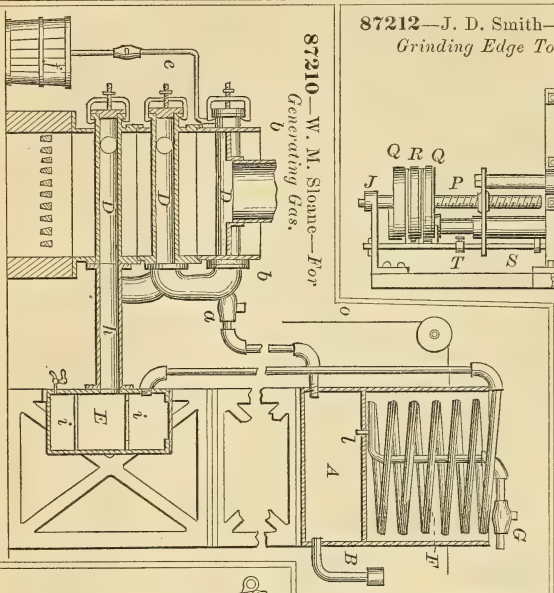

**87205**—I. Samuels—*Velocipede.*



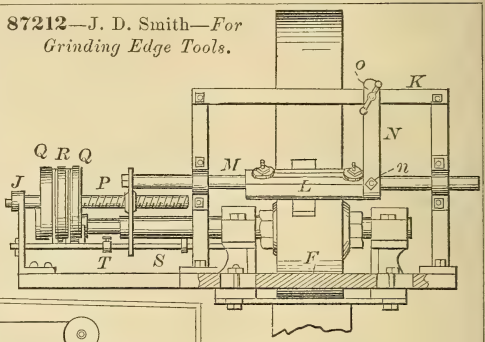
**87206**—E. B. Scattergood—*Gate.*

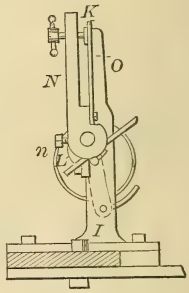



**87210**—W. M. Sloane—*For Generating Gas.*

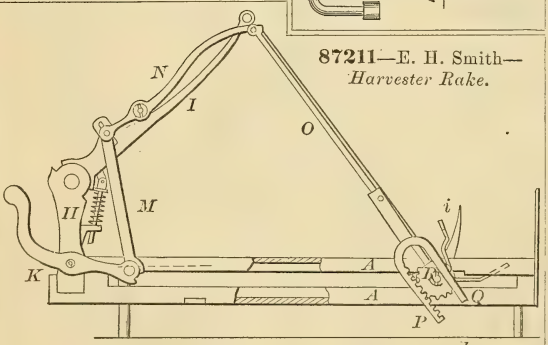



**87212**—J. D. Smith—*For Grinding Edge Tools.*

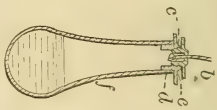


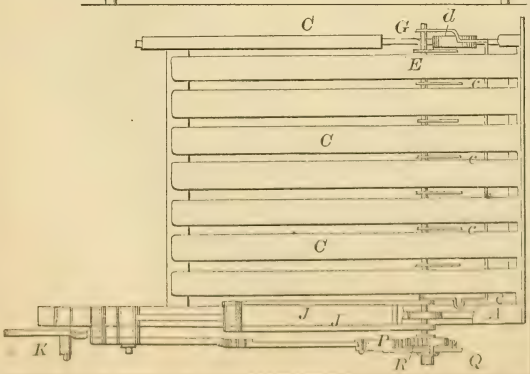




**87211**—E. H. Smith—*Harvester Rake.*

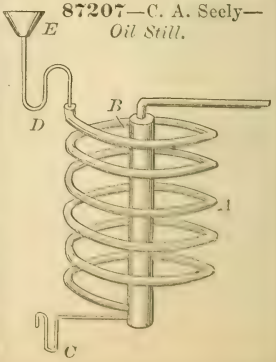



**87209**—W. F. Shaw—*Curtain Weight.*

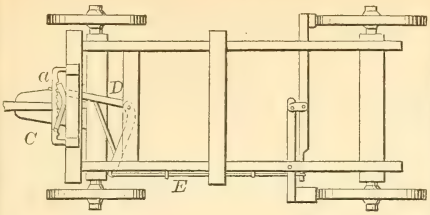


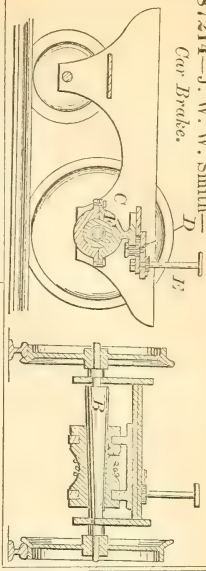

**87207**—C. A. Seely—*Oil Still.*



**87213**—J. Smith—*Wagon Brake.*

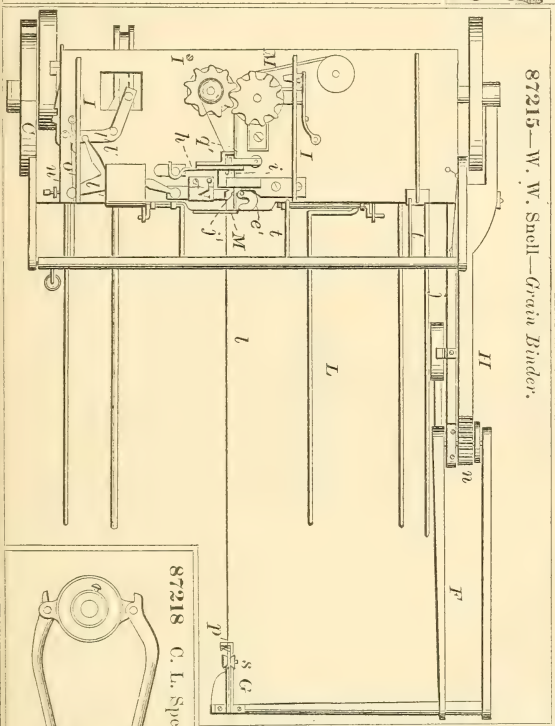



**87214**—J. W. W. Smith—*Car Brake.*

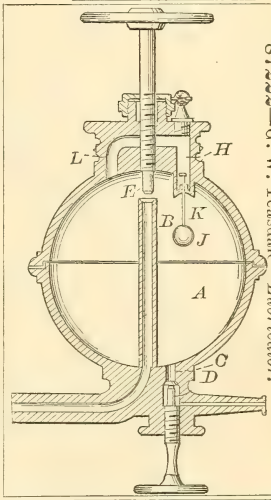



**87219**—R. J. Steele, Jr.—*Obtaining Turpentine.*

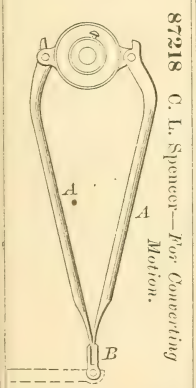
**87215**—W. W. Snell—*Grain Binder.*



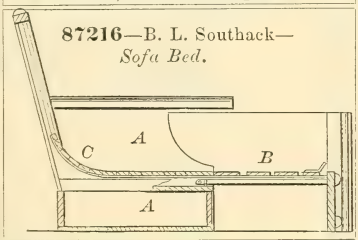

**87222**—G. W. Teasdale—*Lubricator.*




**87218** C. L. Spencer—*For Converting Motion.*




**87216**—B. L. Southack—*Sofa Bed.*




**87217**—C. L. Spencer—*For Converting Motion.*

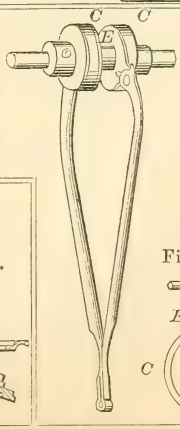
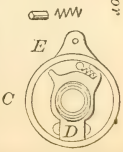
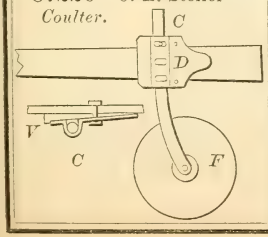


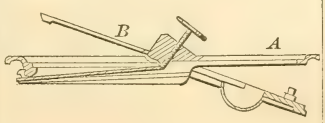

Fig. 7



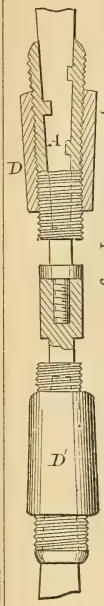

**87220**—C. E. Steller—*Coulter.*



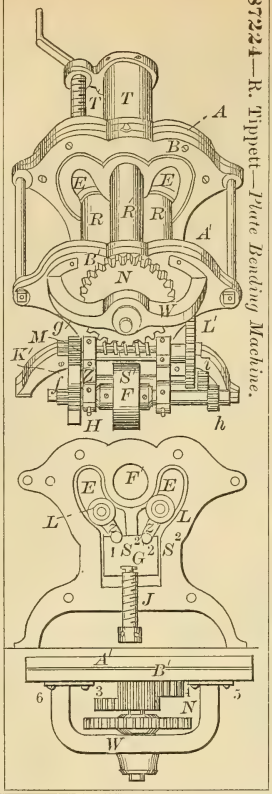

**87221**—L. C. Taber—*Damper.*



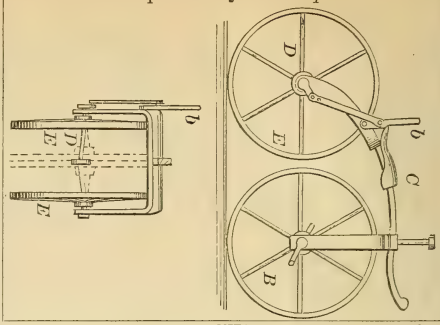
87223—G. Thompson—*Rod Coupling.*



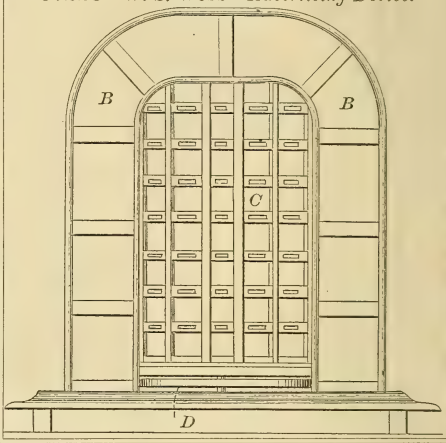

87224—R. Tippett—*Plate Bending Machine.*



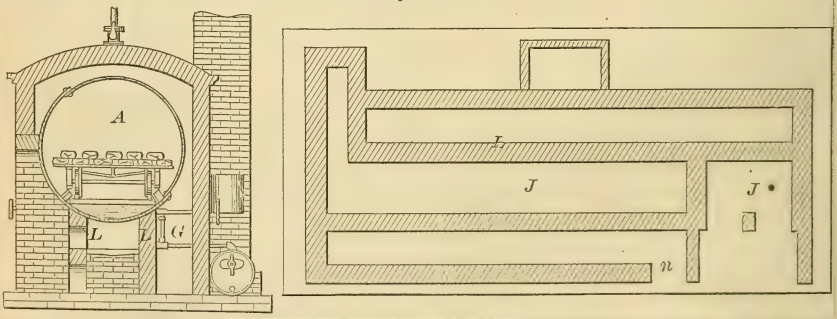

87225—Topliff & Ely—*Velocipede.*



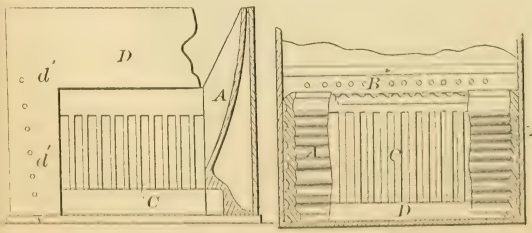

87228—W. S. Webb—*Advertising Device.*




87226—Voorhees & Custis—*For Preserving Wood.*

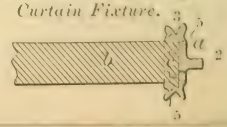



87230—A. Wisner—*Lining-Plates for Stoves.*

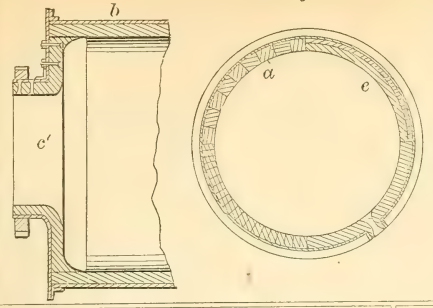



87229—W. Williams—*Carriage Tire.*

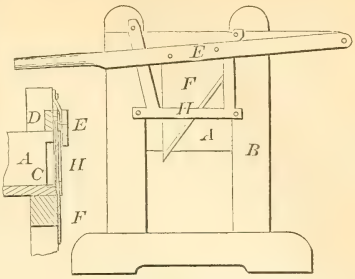
87234—J. B. Bailey—*Curtain Fixture.*



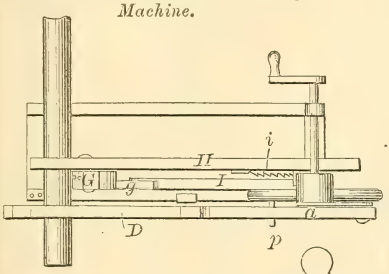
**87231**—W. Yates—*For Treating Iron and Steel.*

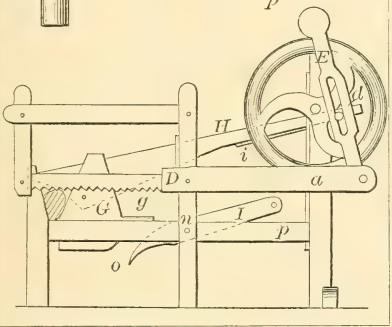



**87232**—J. J. Andrew—*Straw Cutter.*

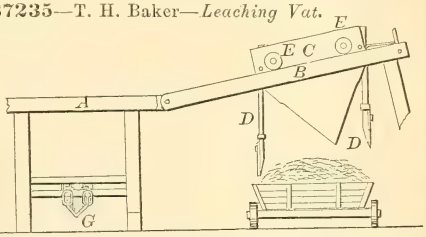



**87233**—J K. Babcock—*Sawing Machine.*

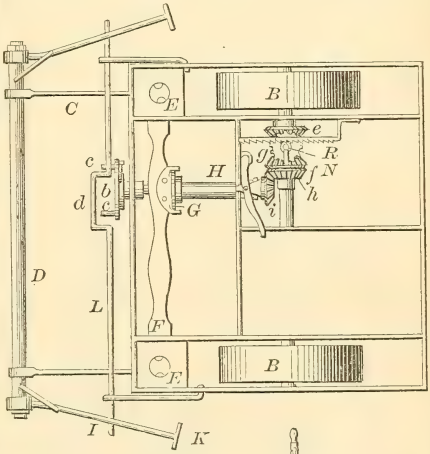


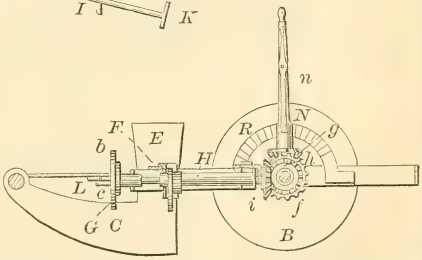




**87235**—T. H. Baker—*Leaching Vat.*

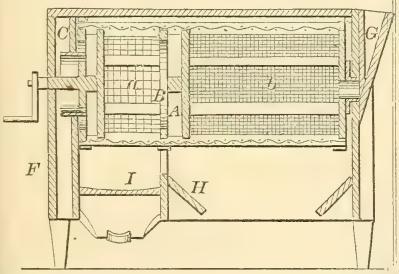



**87237**—W. T. Beckman—*Corn Planter.*

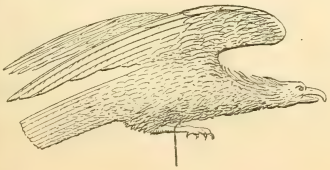


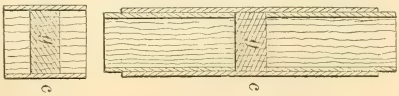

**87239**—S. Blair—*Grain Screen.*



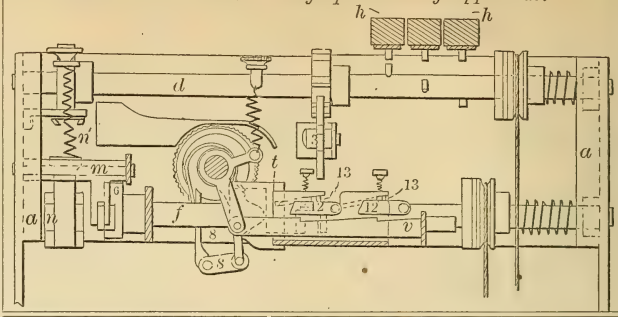

**87238**—J. H. Bellamy—*Toy Bird.*



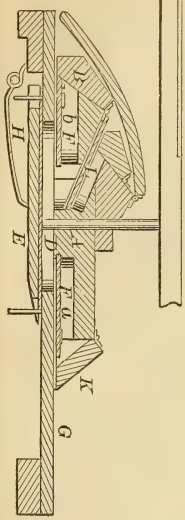
**87236**—E. B. & L. W. Beecher—*Match Box.*



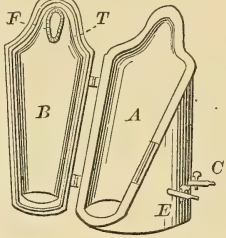
**87242**—E. A. Calahan—*Telegraph Punching Apparatus.*



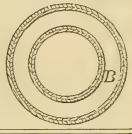

**87241**—R. Burdett—*Reed Organ.*



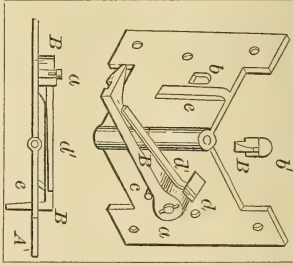

**87247**—W. Curran—*Depurator.*



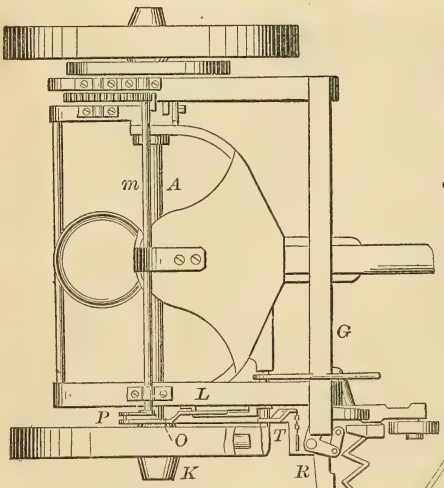

**87240**—C. B. Bristol—*Martingale Ring.*



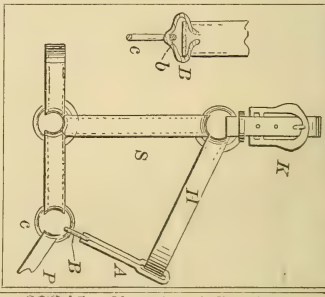

**87243**—J. L. Cathcart—*Blind Hinge.*



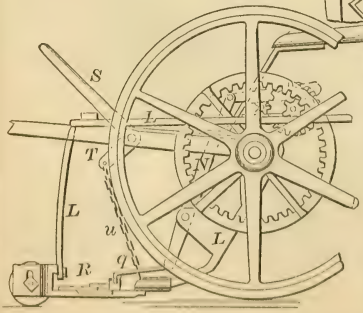

**87244**—W. Chapman—*Harvester.*

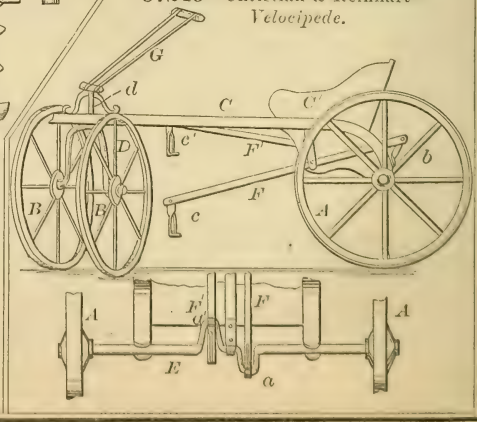



**87246**—S. F. Cross—*Halter.*

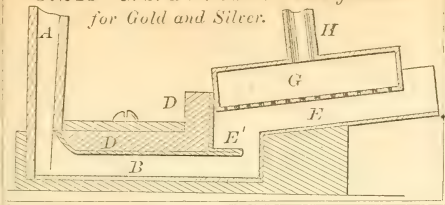



**87245**—Christian & Reinhart—*Velocipede.*

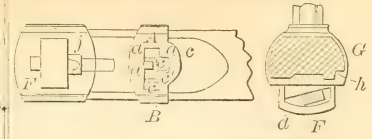


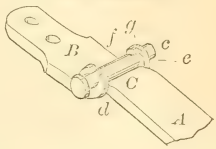
87248—G. S. & H. Curtis—*Amalgamator for Gold and Silver.*



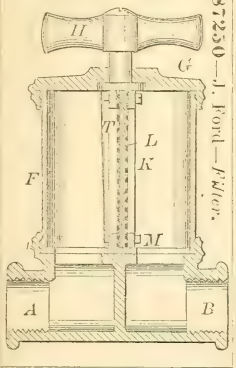

87251—P. Frost—*Scythe Snath.*



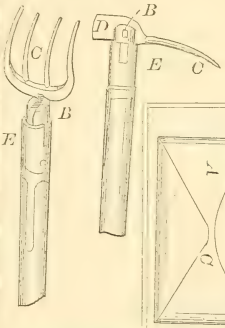

87252—A. Fuhrman—*Thill Coupling.*



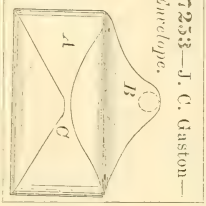

87250—J. Ford—*Filter.*



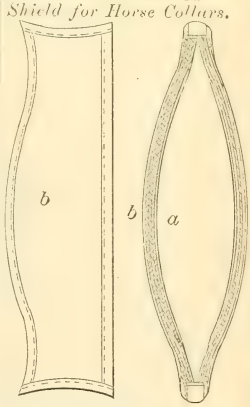

87249—R. Dean—*Fork and Hook.*



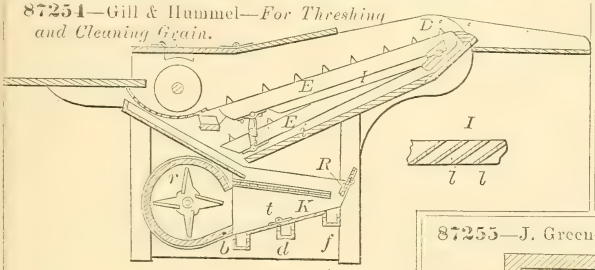

87253—J. C. Gaston—*Envelope.*

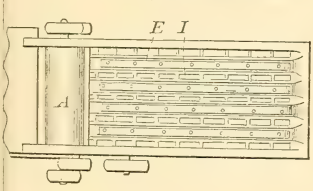



87257—C. B. Hogg—*Shield for Horse Collars.*

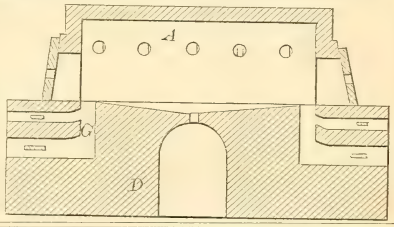



87254—Gill & Hummel—*For Threshing and Cleaning Grain.*

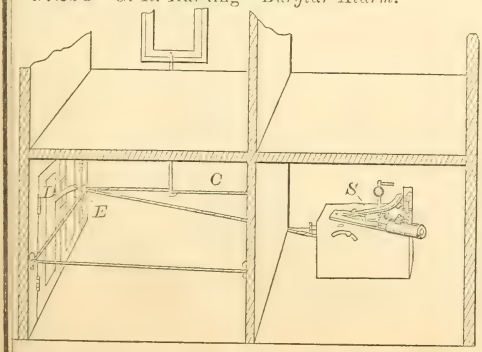


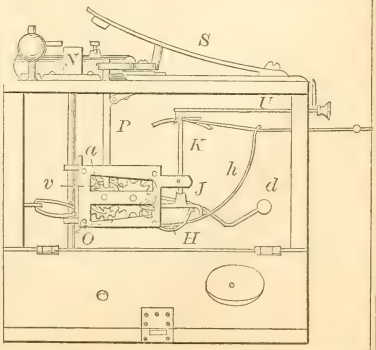




87255—J. Green—*Glass Furnace, Kiln, &c.*

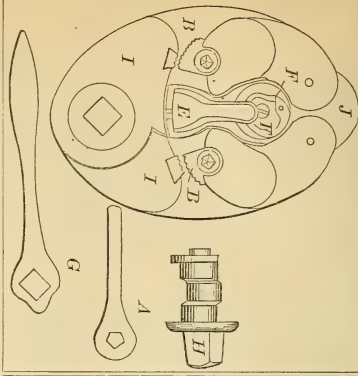



87256—G. R. Harding—*Burglar Alarm.*

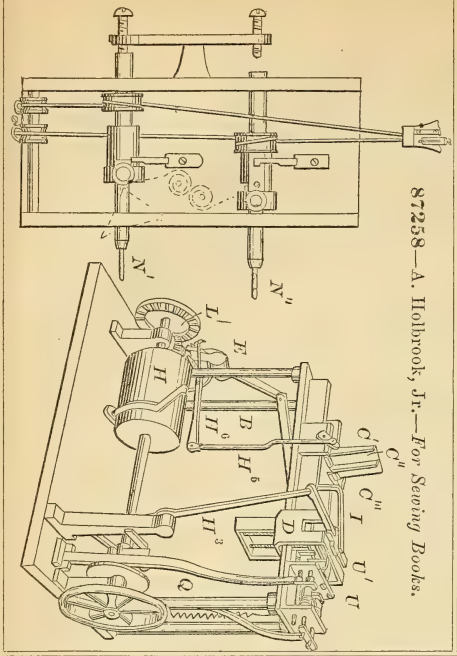


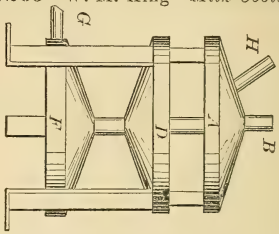
87260—W. M. Hughes—*Tire Upsetter.*



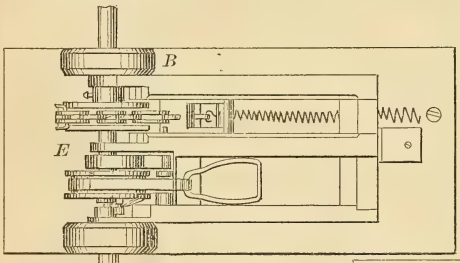

87258—A. Holbrook, Jr.—*For Sewing Books.*

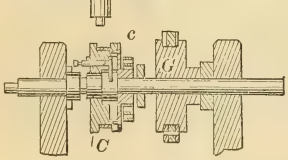


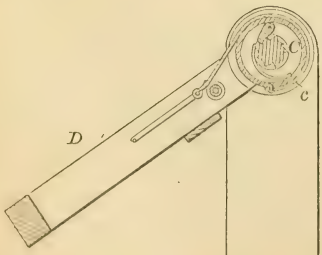

87265—W. M. King—*Milk Cooler.*



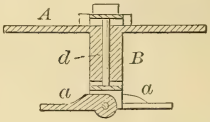

87259—Howe & Hartford—*Velocipede.*



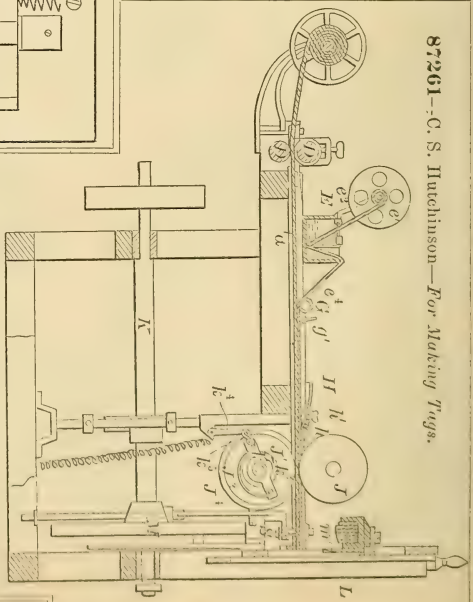



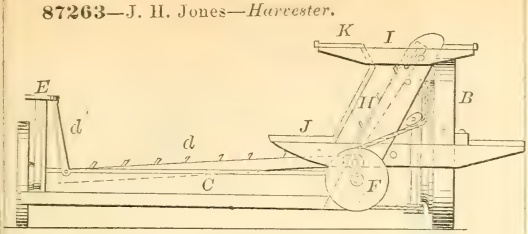

87262—L. A. Jefferson—*Button.*



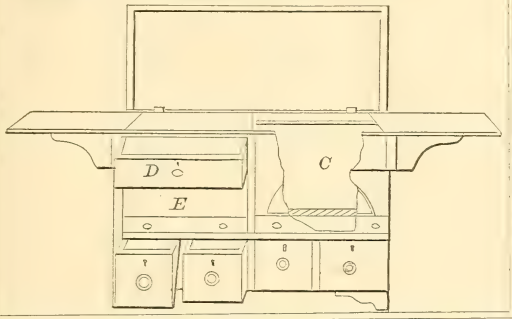

87261—C. S. Hutchinson—*For Making Tugs.*



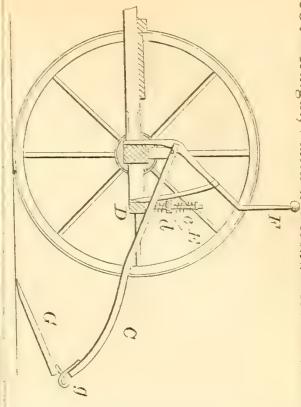
87263—J. H. Jones—*Harvester.*



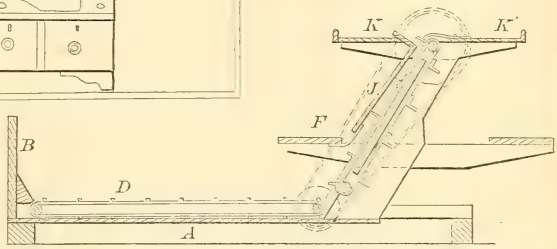

87266—J. M. Klingenmeier—*Kitchen Safe.*



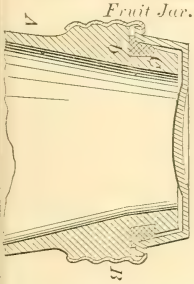

87267—Knight, Smith & Bergeaw—*Horse Rake.*



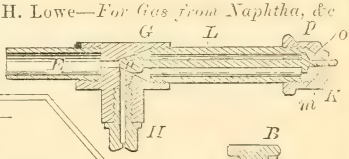

87264—J. H. Jones—*Harvester.*



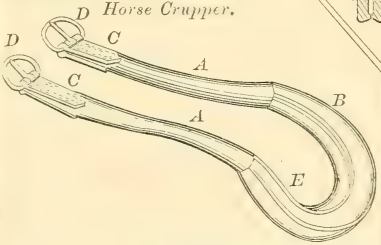

87274—J. L. Mason—*Fruit Jar.*

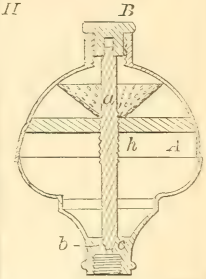



87272—D. H. Lowe—*For Gas from Naphtha, &c*

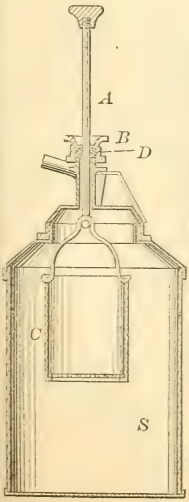



87269—P. A. La France—*Horse Crupper.*

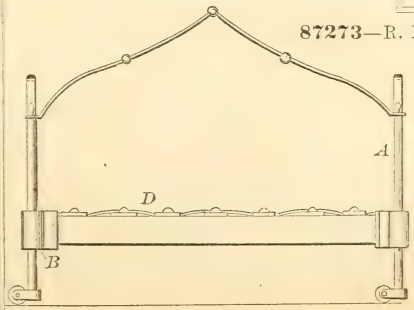


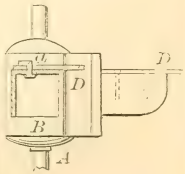




87271—C. B. Loveless—*Gas Generator.*

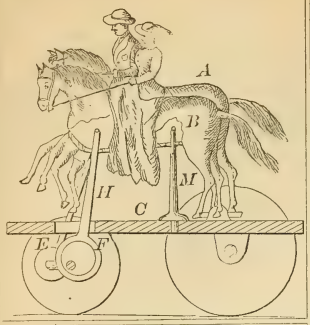



87273—R. Martin—*Bedstead.*

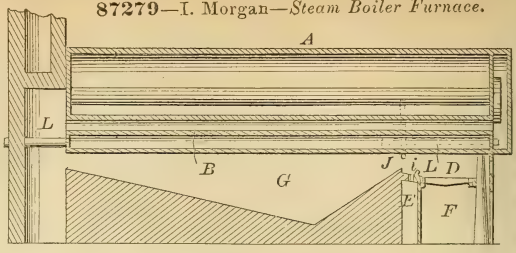


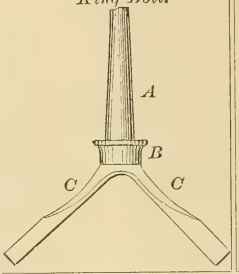
87275—R. McCully—*Toy.*



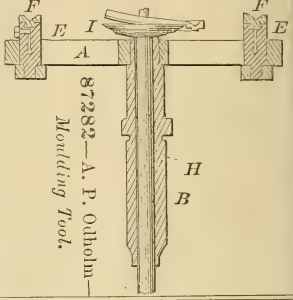

87279—I. Morgan—*Steam Boiler Furnace.*



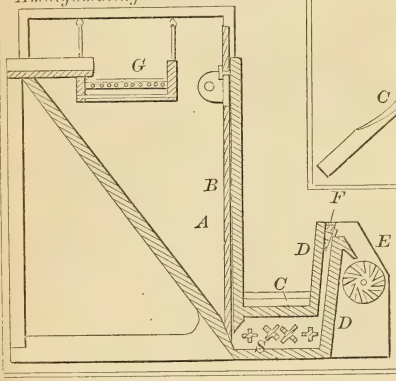

87280—F B. Morse—*King Bolt.*



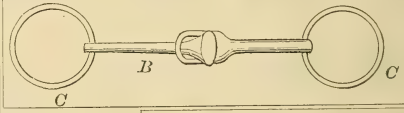

87282—A. P. Odholm—*Moulding Tool.*



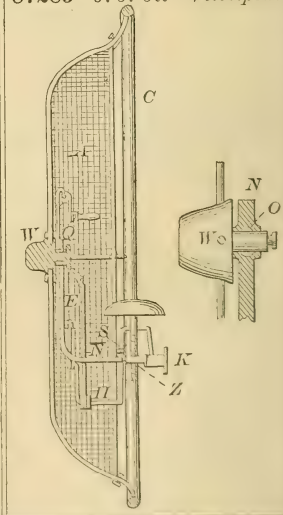

87276—R. McCully—*For Amalgamating Gold and Silver.*



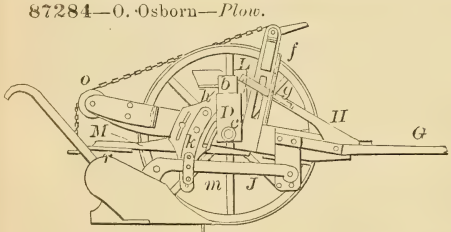

87281—D. M. Nixon—*Bridle Bit.*

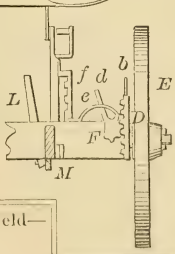



87285—J. J. Ott—*Velocipede.*

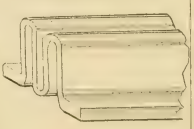



87284—O. Osborn—*Plow.*

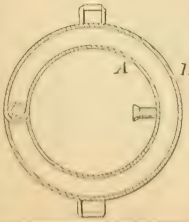


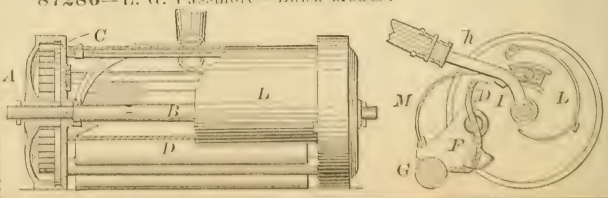

87278—R. Montgomery—*Steel Beam.*



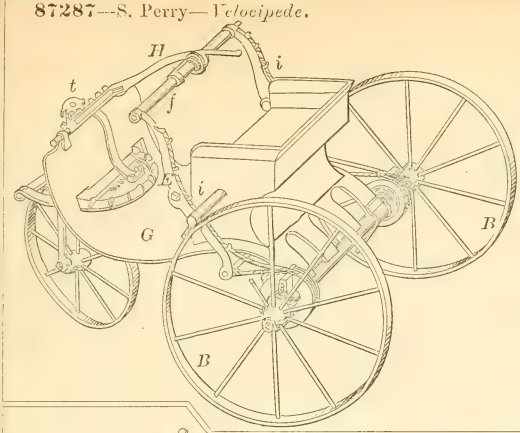
87283—J. Oldfield—*Cooler.*



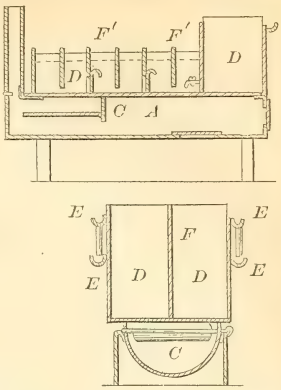

87286—E. G. Passmore—*Lawn Mower.*



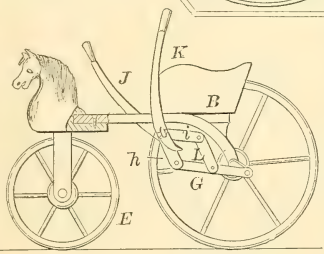
87287—S. Perry—*Velocipede.*

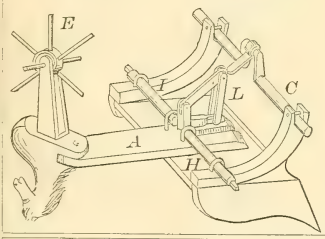



87288—H. Ramey—*Evaporator.*

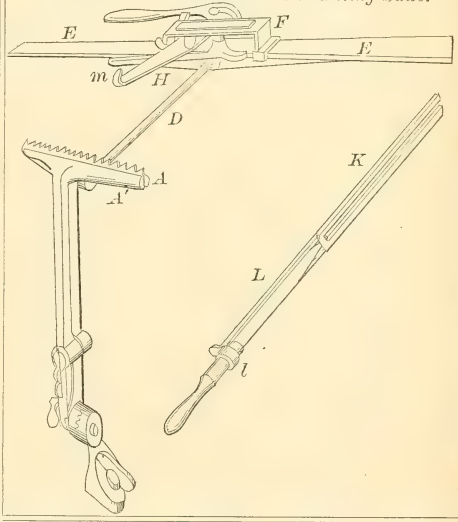



87290—J. Reinhart—*Velocipede.*

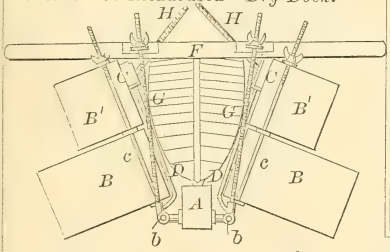


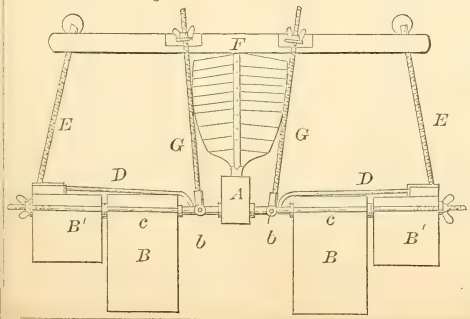




87289—G. W. Rathbun—*For Filing Saws.*

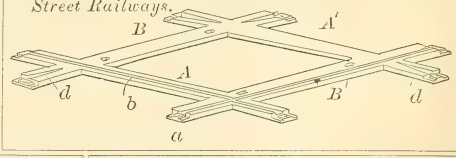



87291—J. Richardson—*Dry Dock.*

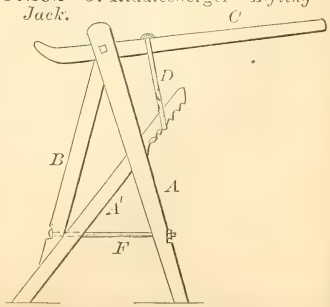


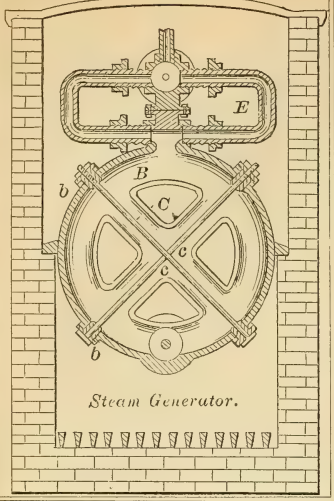

87293—J. E. Ridgway—*Crossing Plate for Street Railways.*




87292—J. Riddlesberger—*Lifting Jack.*

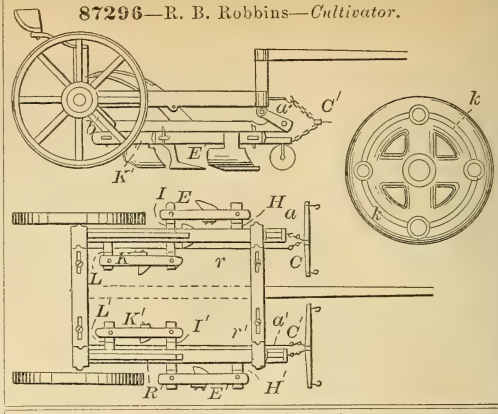


**87294**—G. A. Riedel—

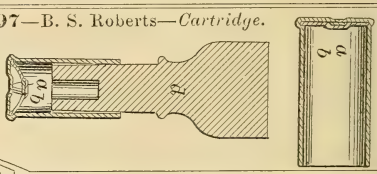



*Steam Generator.*

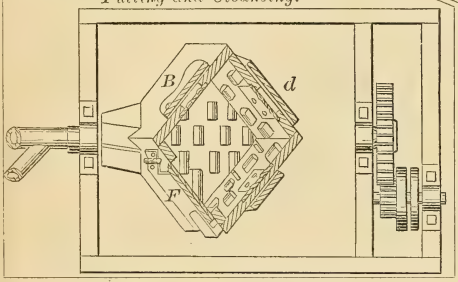
**87296**—R. B. Robbins—*Cultivator.*



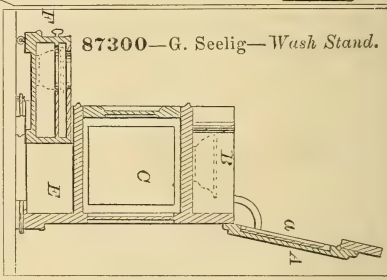

**87297**—B. S. Roberts—*Cartridge.*



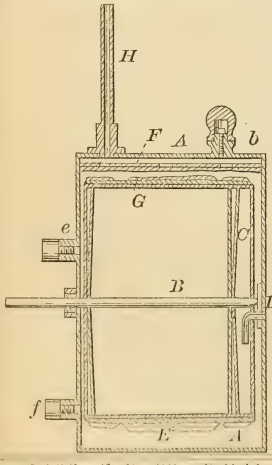

**87298**—C. Schmitz—*For Tanning, Fulling and Cleansing.*



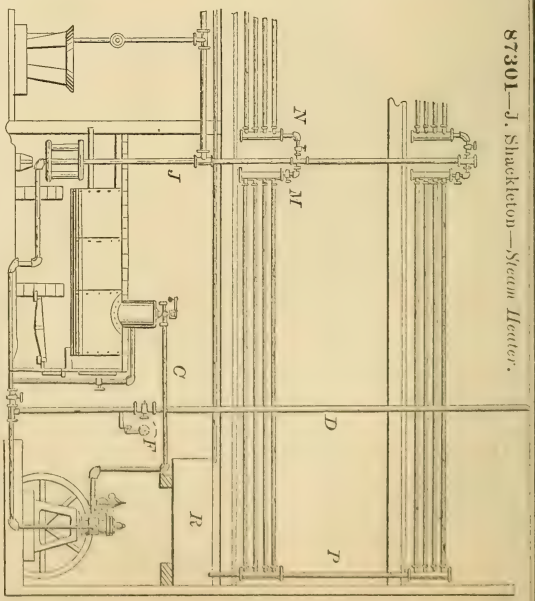

**87300**—G. Seelig—*Wash Stand.*




**87299**—J. E. Schwippel—*For Making Gas.*

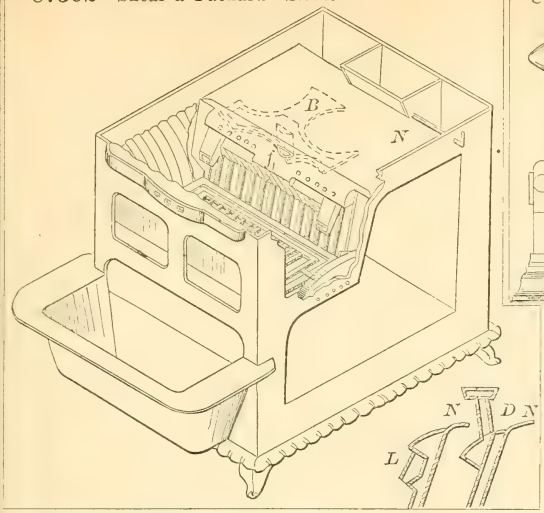



**87301**—J. Shackleton—*Steam Heater.*

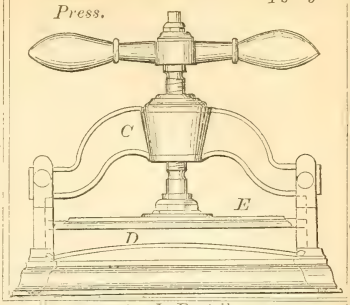



**87303**—S. B. Sill—*Polishing Artificial Teeth.*

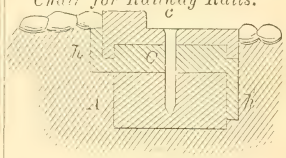
**87302**—Shear & Packard—*Stove.*



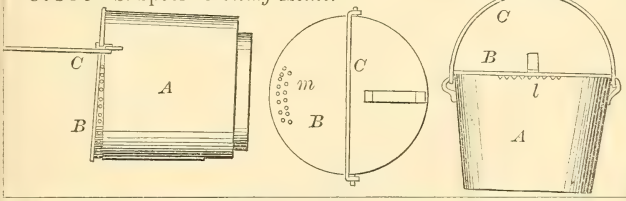

**87304**—W. M. Smith—*Copying Press.*



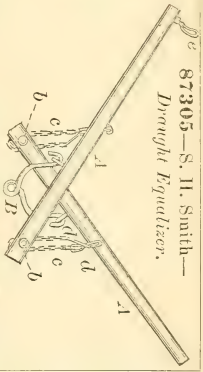

**87308**—J. F. Stileman—*Chair for Railway Rails.*



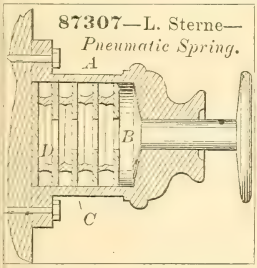

**87306**—S. Spoor—*Boiling Kettle.*



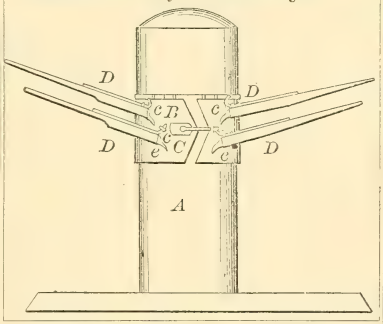

**87305**—S. H. Smith—*Draught Equalizer.*



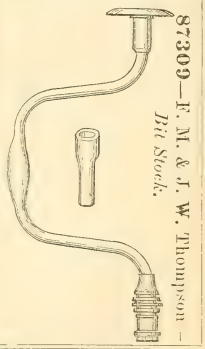

**87307**—L. Sterne—*Pneumatic Spring.*



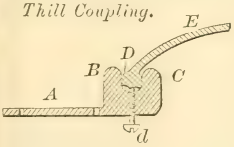

**87312**—S. Way—*Clothes Dryer.*



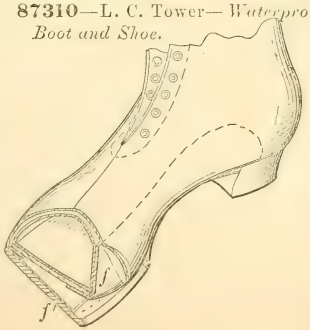

**87309**—F. M. & J. W. Thompson—*Bit Stock.*



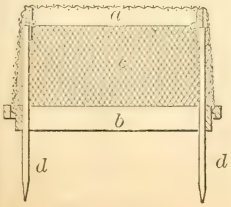
**87311**—E. J. Watson—*Thill Coupling.*



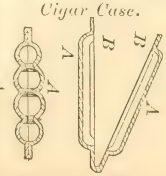

**87310**—L. C. Tower—*Waterproof Boot and Shoe.*



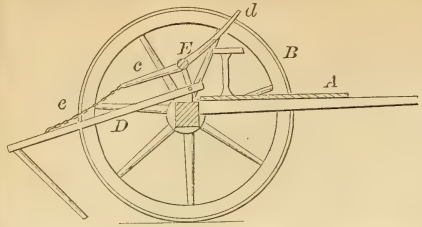

**87313**—W. B. Wickes—*Plant Protector.*



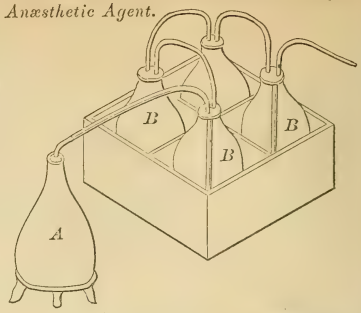

**87314**—S. R. Wilmot—*Cigar Case.*



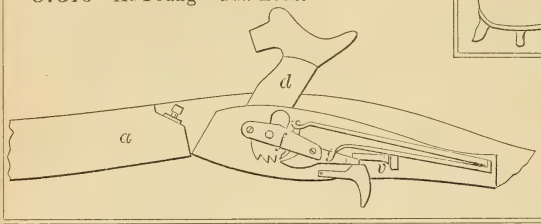
87315—H. Wood—*Horse Rake.*



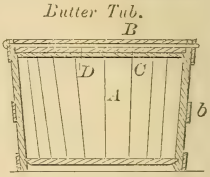

87319—W. P. Barker—*For Use of Anæsthetic Agent.*



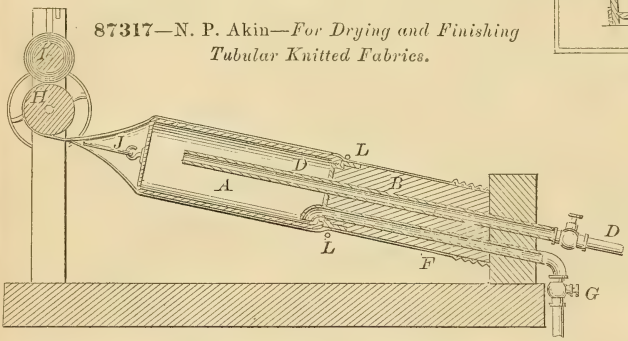

87316—A. Young—*Gun Lock.*



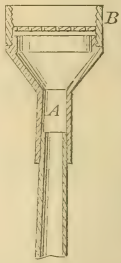

87323—G. S. Batcheller—*Butter Tub.*



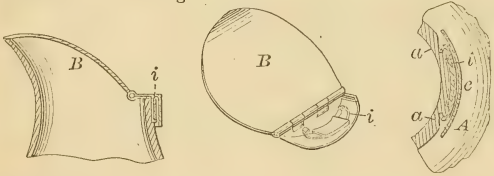

87317—N. P. Akin—*For Drying and Finishing Tubular Knitted Fabrics.*



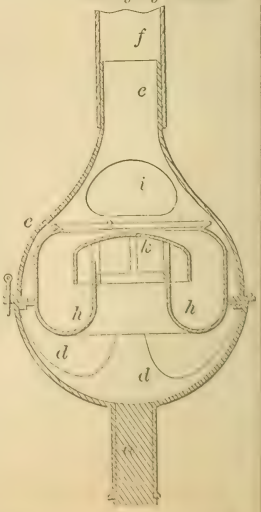

87321—J. Barrows—*Sprinkler.*



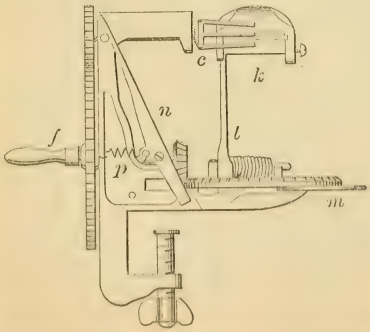

87318—C. Ballinger—*Pitcher.*



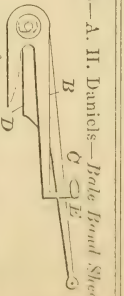

87324—Baudouin & Fteley—*For Destroying Insects.*



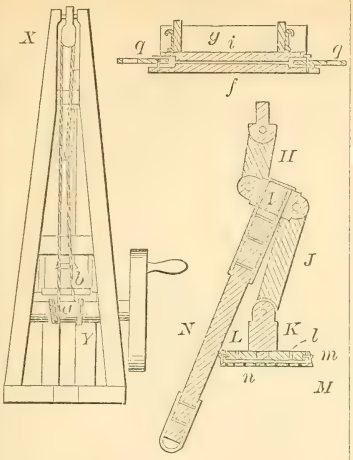

87322—A. G. Batchelder—*Apple Parer.*



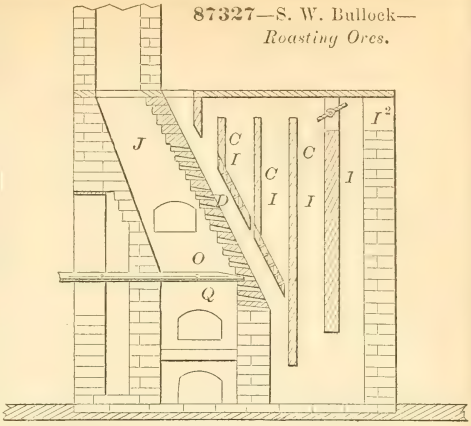

87328—A. H. Daniels—*Bale Bend Sheaves.*



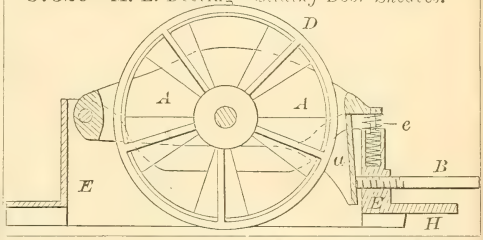
**87326**—B. Bisbee—*Brick Machine.*

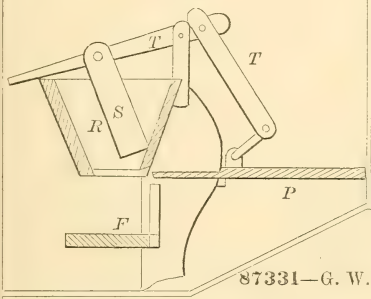



**87327**—S. W. Bullock—*Roasting Ores.*

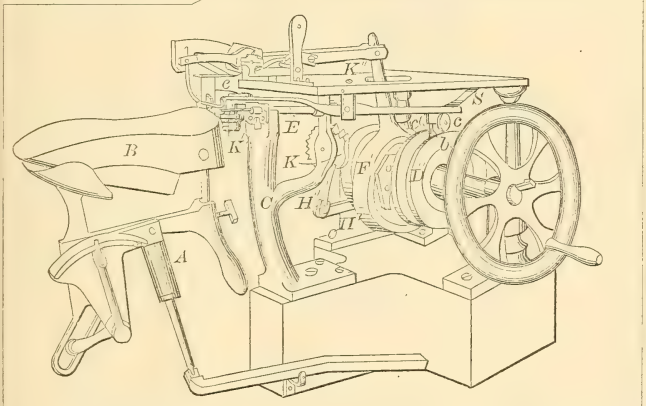



**87329**—M. L. Deering—*Sliding Door Sheaves.*

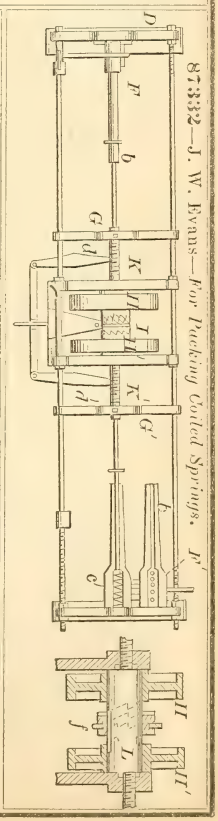


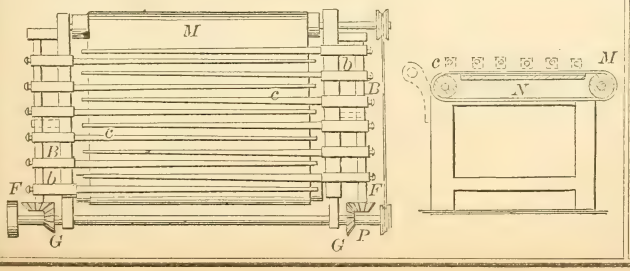

**87331**—G. W. Eldridge—*Sewing Machine.*




**87332**—J. W. Evans—*For Packing Coiled Springs.*

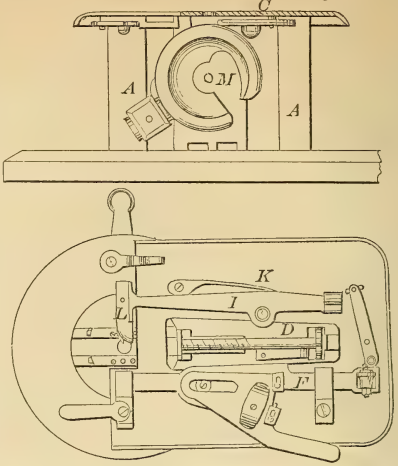



**87330**—E. Eaton—*For Whipping Cloth.*

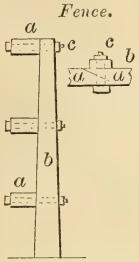


**87333**—B. C. Finfrock—*Boot Crimp.*

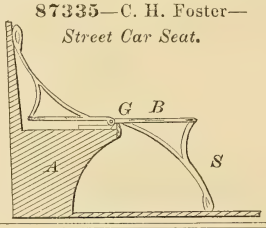
**87338**—J. A. & H. A. House—*Sewing Machine.*



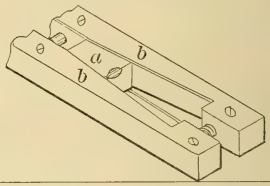

**87336**—E. L. Fraker—*Fence.*



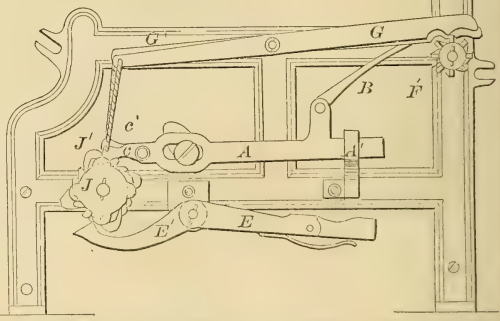

**87335**—C. H. Foster—*Street Car Seat.*



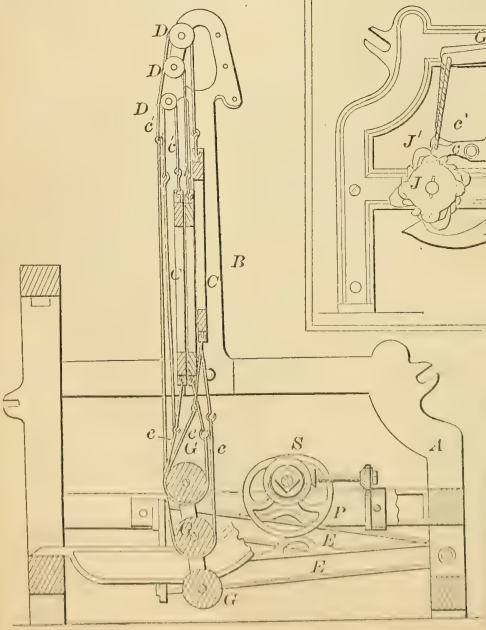

**87339**—T. J. House—*Printers' Furniture.*



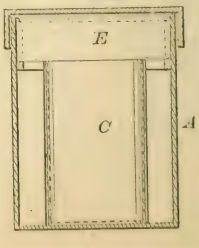

**87337**—R. B. Goodyear—*Loom.*



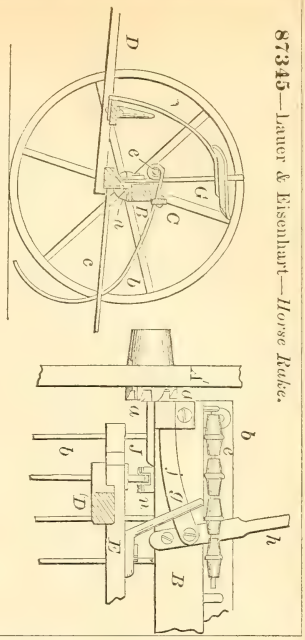

**87341**—B. H. Jenks—*Loom.*



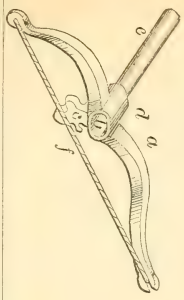

**87334**—M. Fitzgibbons—*Fur Box.*



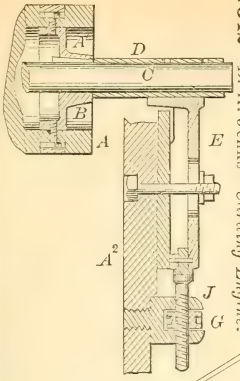
**87345**—Lauer & Eisenhart—*Horse Rake.*



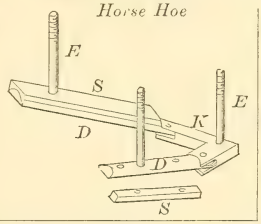
**87344**—F. W. Judd—*Toy Bow.*



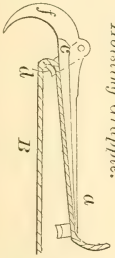
**87342**—B. H. Jenks—*Cording Engine.*



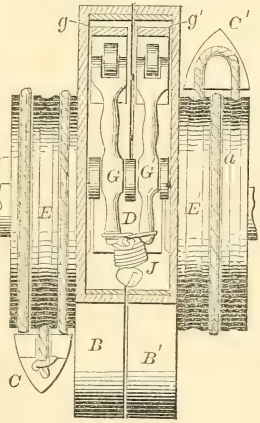
**87347**—C. Lobdell—*Horse Hoe*



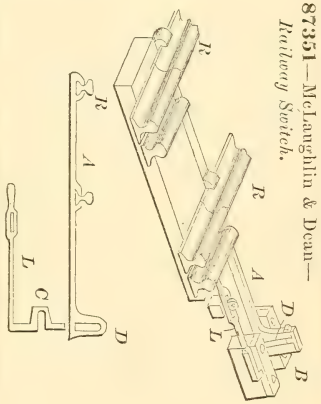
**87349**—T. McGrath—*Hoisting Grapple.*



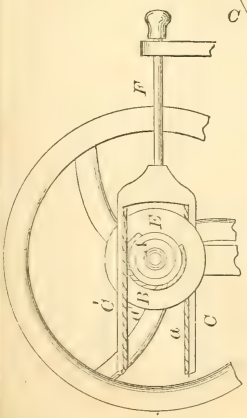
**87353**—G. R. Metten—*Mechanical Movement.*



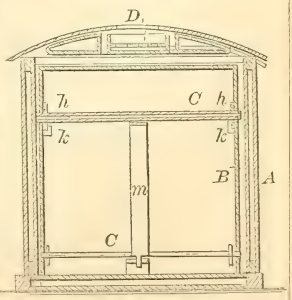
**87351**—McLaughlin & Dean—*Railway Switch.*



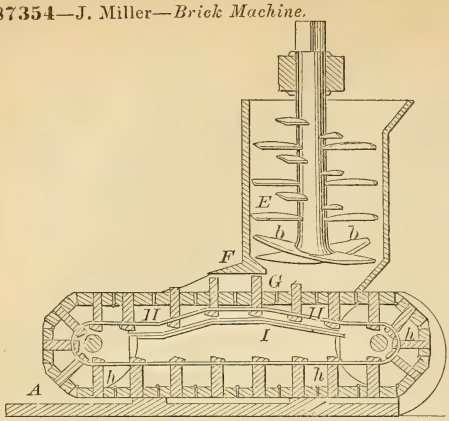
**87352**—J. V. Meigs—*Cartridge.*



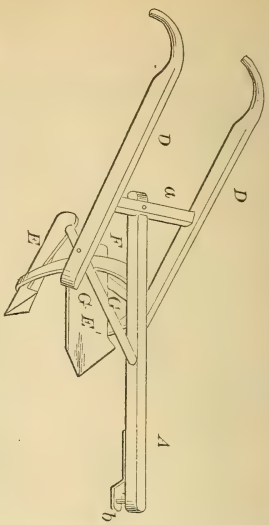
**87348**—A. L. McCrea—*Refrigerating Car.*



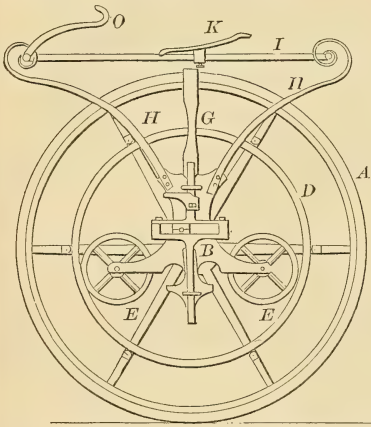
87354—J. Miller—*Brick Machine.*

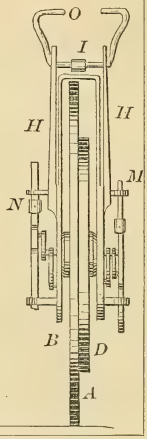



87356—G. Notman—*Plow.*

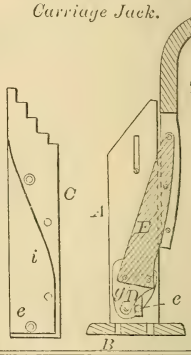



87355—F. Myers—*Velocipede.*

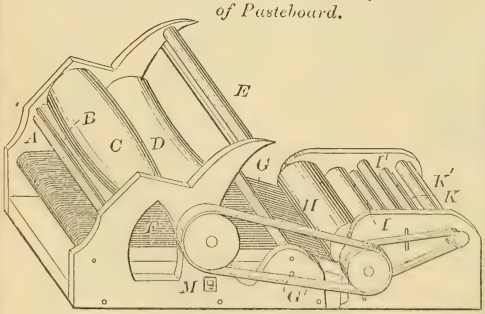


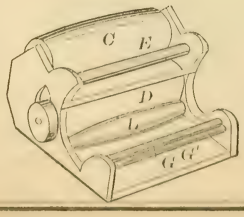




87358—C. H. Paine—*Carriage Jack.*

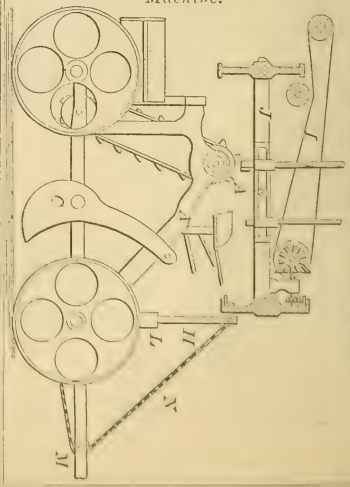



87359—H. L. Palmer—*For the Manufacture of Pasteboard.*

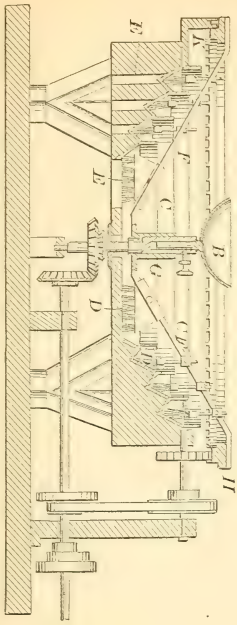


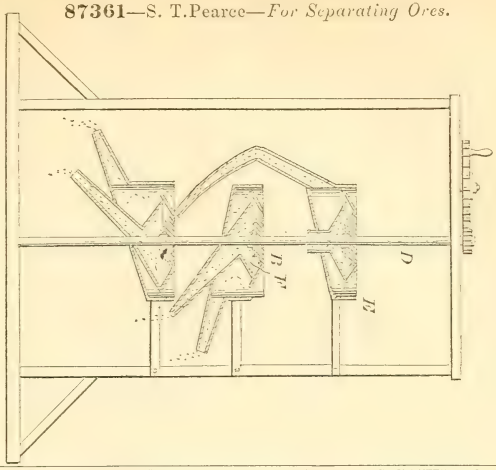

87357—A. B. Overbaugh—*Ditching Machine.*



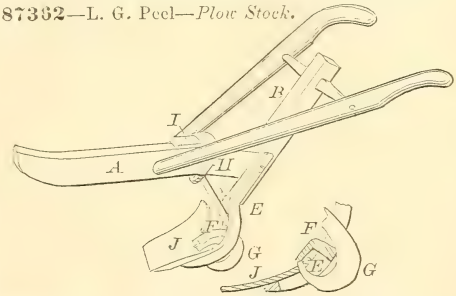
87360—S. T. Pearce—*Ore Separator.*



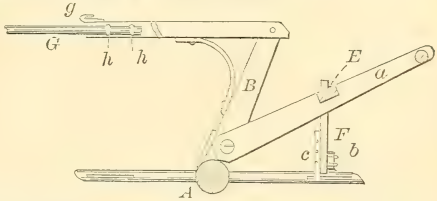
87361—S. T. Pearce—*For Separating Ores.*



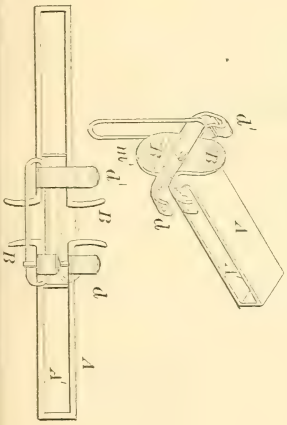
87362—L. G. Peel—*Plow Stock.*



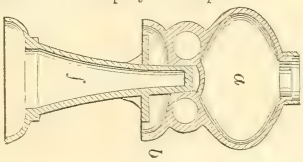
87363—J. Perry—*Horse Rake.*



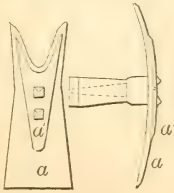
87366—T. R. Power—*Car Coupling.*



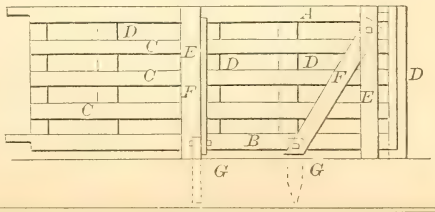
87367—D. C. Ripley—*Lamp.*



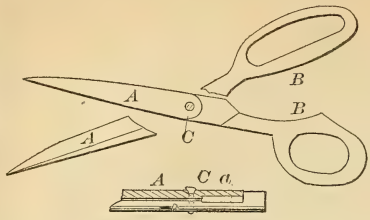
87368—A. M. Ross—*Hoe.*



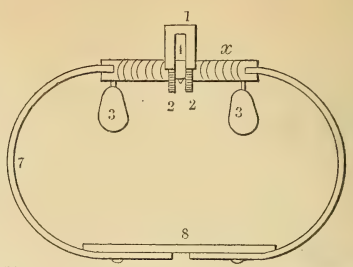
87364—T. E. Phillips—*Fence.*



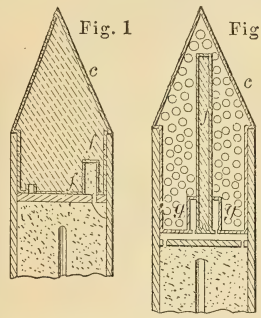
**87369**—J. Ryals—*Construction of Shears.*



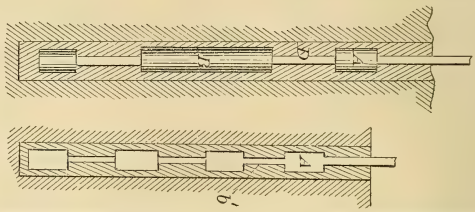

**87370**—W. Schnebly—*Truss.*



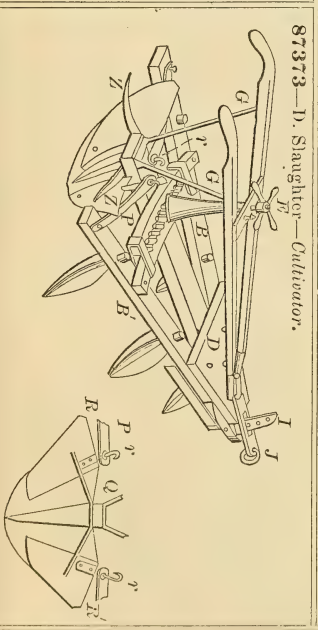

**87371**—T. P. Shaffner—*Rocket.*



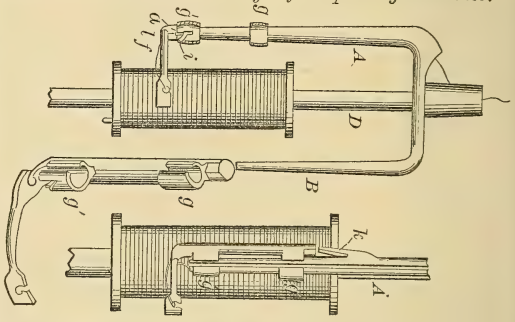

**87372**—T. P. Shaffner—*Blasting in Oil Wells, &c.*



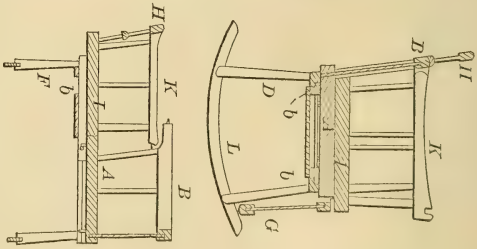

**87373**—D. Slaughter—*Cultivator.*



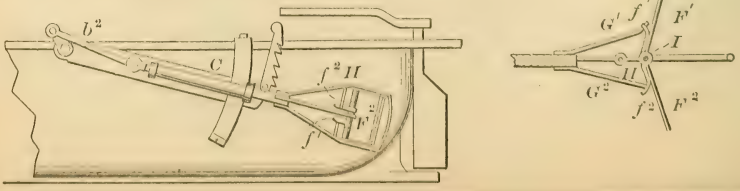

**87374**—A. W. Smith—*Flyer for Spinning Machines.*



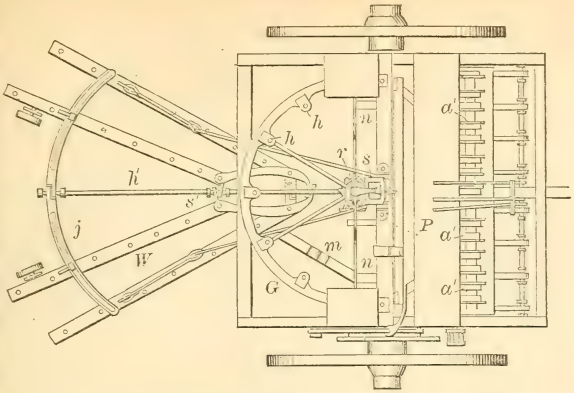

**87378**—M. Studley—*Cradle Chair.*

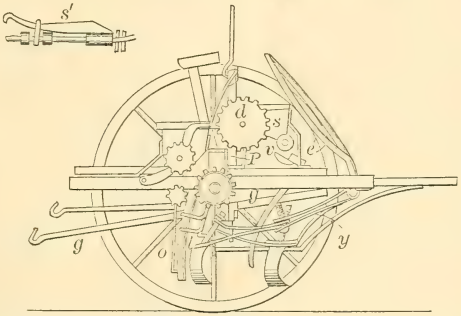



**87375**—C. T. Smith—*Propelling Apparatus.*

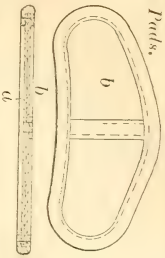


87376—H. Smith—*Corn Planter, Grain Drill and Harrow.*

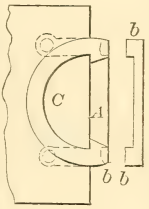


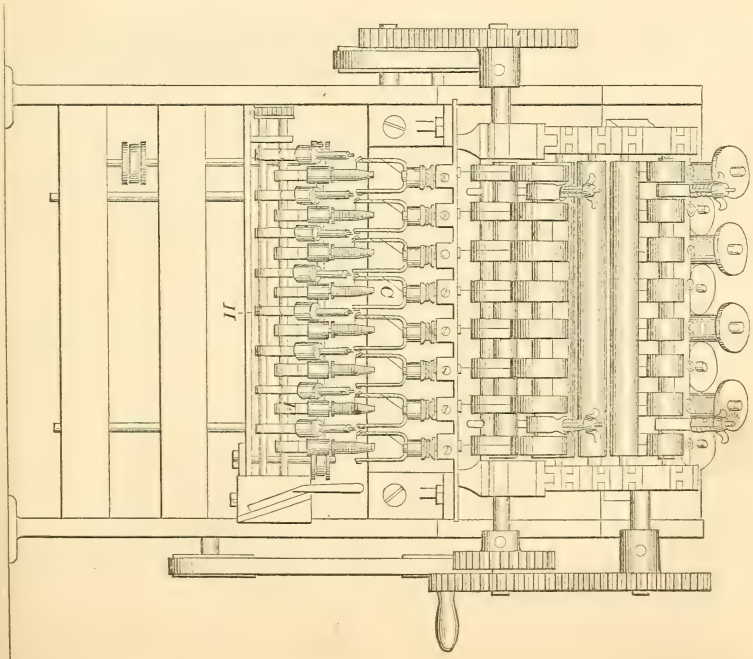

87379—R. C. Sturgis—*Sweat Shield for Saddle Pads.*



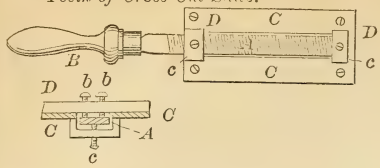

87380—Sugg & Metz—*Bedstead Fastening.*



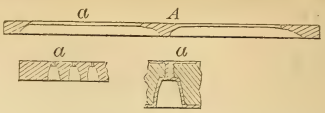

87377—J. Speight—*Spinning Machine.*



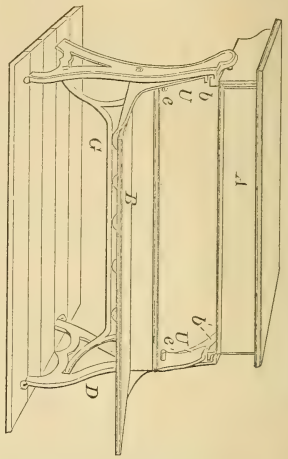
87381—W. G. Tuttle—*File for Gauging the Teeth of Cross Cut Saws.*



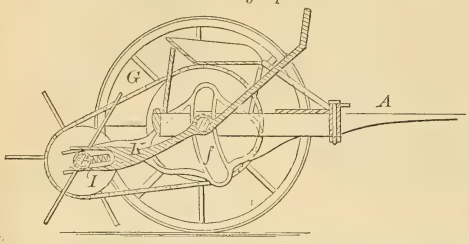

87385—A. S. Winchester—*Screen for Paper Pulp.*



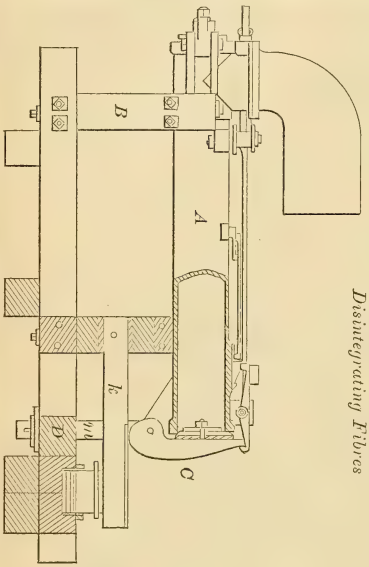

87386—W. S. Wooton—*School Desk and Seat.*



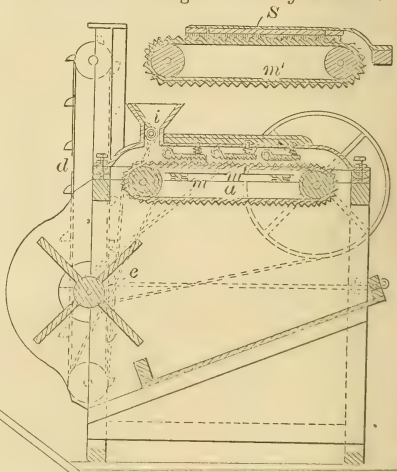

87383—M. N. Ward—*Hay Spreader.*



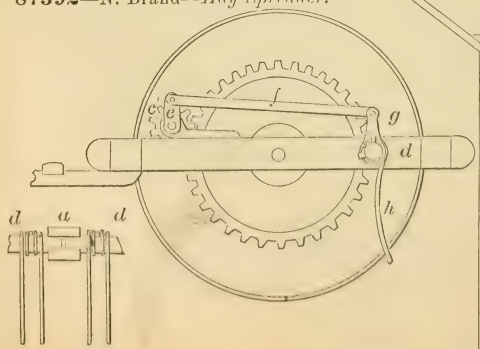

87387—H. Allen—*Valve of Steam Gun for Separating and Disintegrating Fibres*



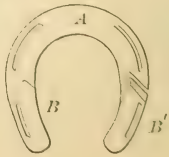

87388—A. Angell—*Hulling Machine.*



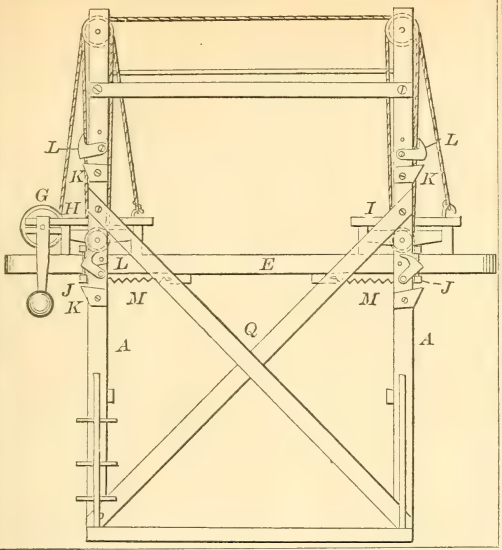

87392—N. Brand—*Hay Spreader.*



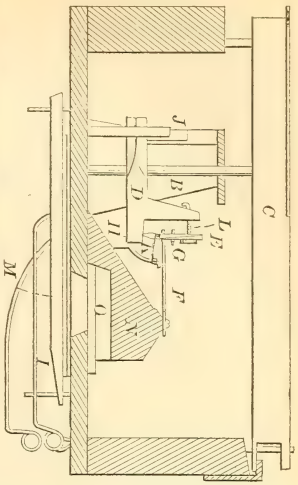

87384—W. Rickie—*Horse Shoe.*



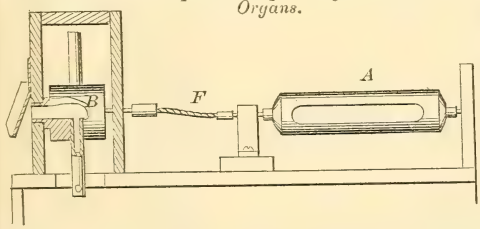
**87389**—F. App—*Scaffold.*



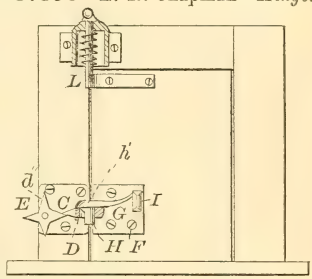

**87394**—R. W. Carpenter—*Reed Organ.*



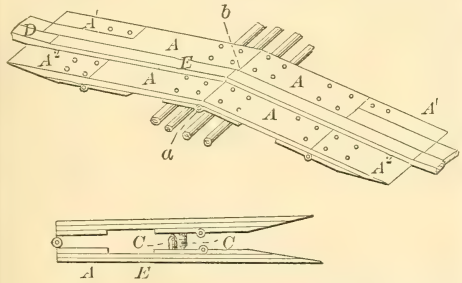

**87395**—R. W. Carpenter—*Operating Tremolos in Organs.*



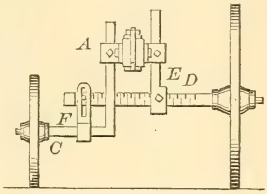

**87396**—L. R. Chapman—*Hinge.*



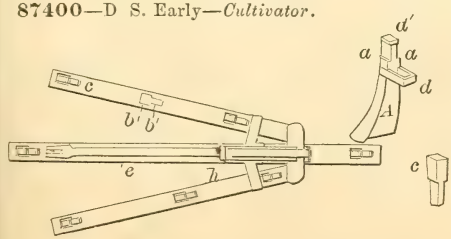

**87399**—C. C. Dow—*Car Jumper.*



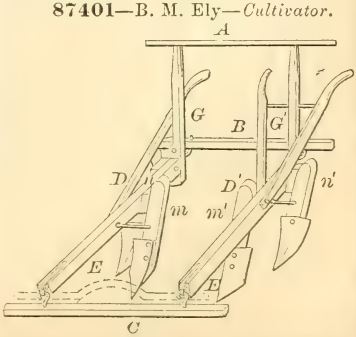

**87398**—J. Clees—*Plow Truck.*



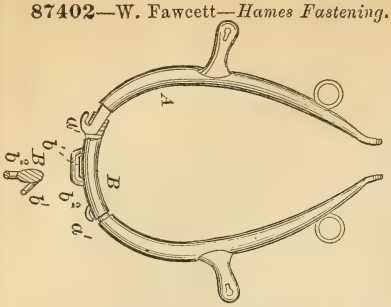

**87400**—D S. Early—*Cultivator.*



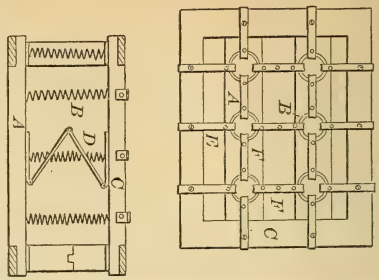

**87401**—B. M. Ely—*Cultivator.*



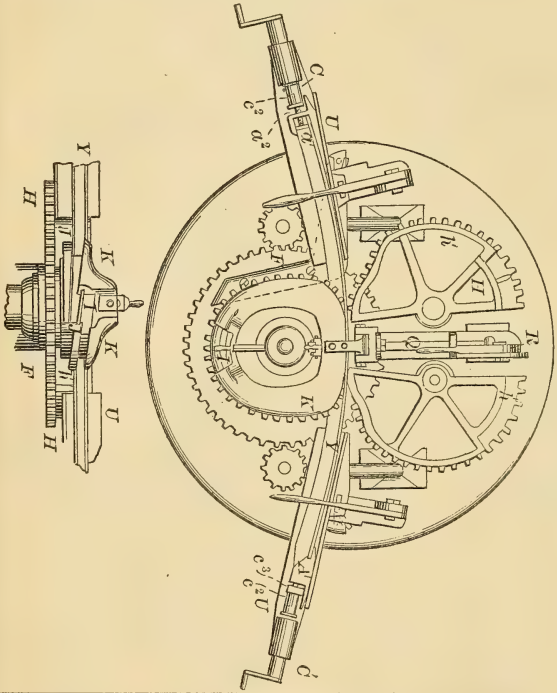
**87402**—W. Fawcett—*Hames Fastening.*



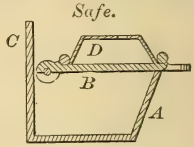
**87403**—J. A. Fegan—*Spring Bed Bottom.*



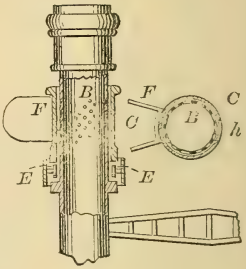
**87404**—R. Fitts, Jr.—*For Bending Wood.*



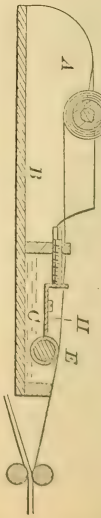
**87405**—J. E. Folk—*Match Safe.*



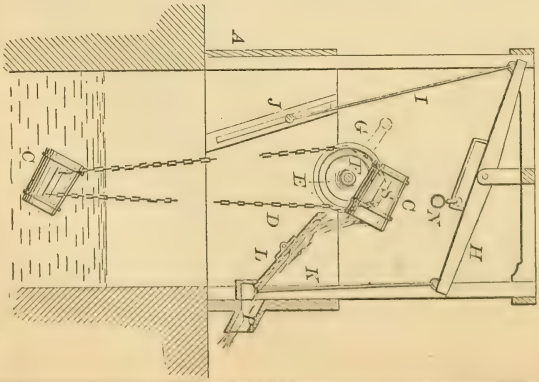
**87406**—E. H. Garrigues—*Spark Arrester.*



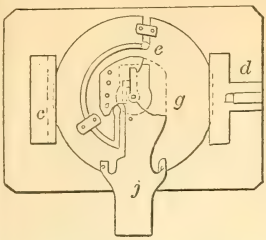
**87407**—W. E. Hale—*For the Manufacture of Pasteboard.*



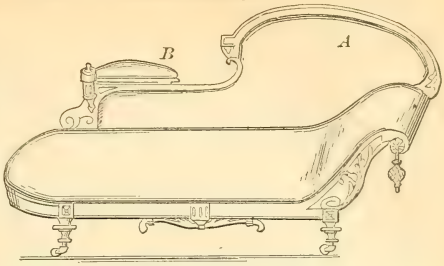
**87408**—W. G. Hamilton—*Water Elevator.*



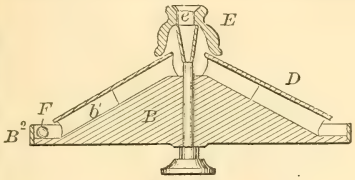
**87409**—A. Harroun, Jr.—*Button Hole Sewing Machine.*



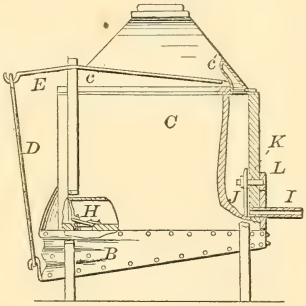

**87411**—F. Hayck—*Lounge.*



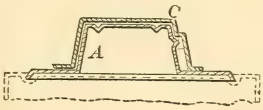

**87410**—G. Hauschild—*Roulette Apparatus.*



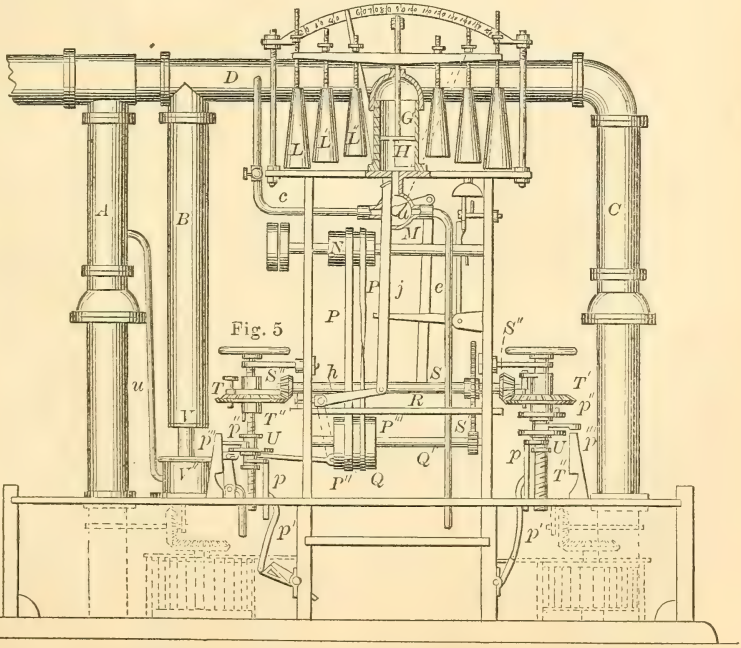

**87412**—J. P. Hemmingsen—*Bellows.*



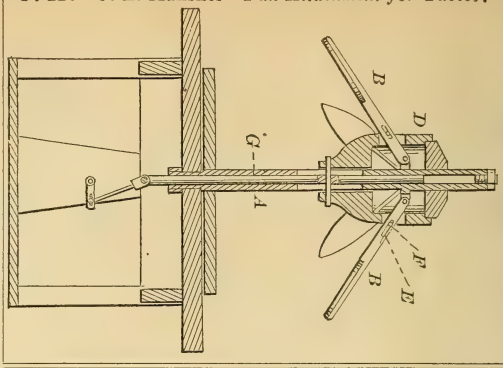

**87415**—J. I. Livingston—*Cap for Cans.*



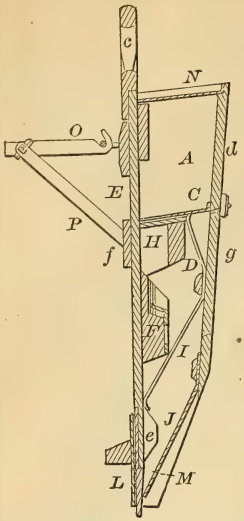

**87413**—B. Holly—*Water Supply Regulator for Water Works.*



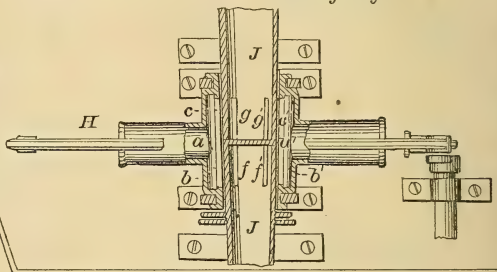
87417—J. E. Mansker—*Fan Attachment for Tables.*



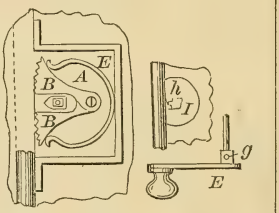

87414—J. Jeffcoat—*Seed Planter.*



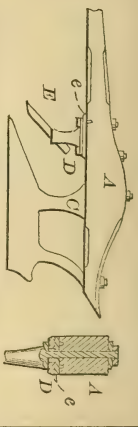

87419—H. B. Martin—*Oscillating Engine.*



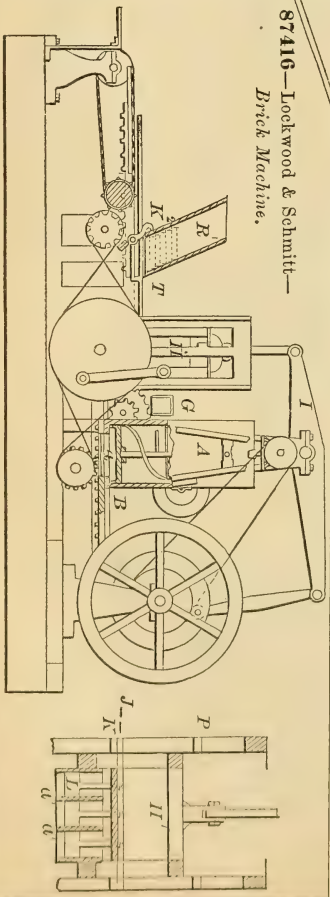

87418—M. R. Margerum—*Sash Fastener.*



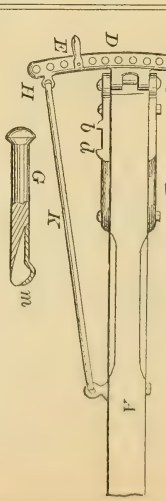

87420—E. G. Matthews—*Plow.*



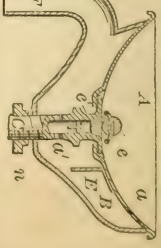

87416—Lockwood & Schmitt—*Brick Machine.*



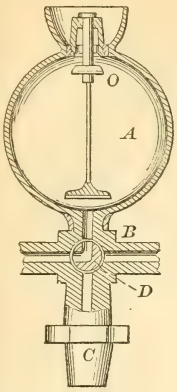

87421—E. G. Matthews—*Plow Clevis.*




87422—J. McCloskey—*Stench Trap and Overflow for Basins.*

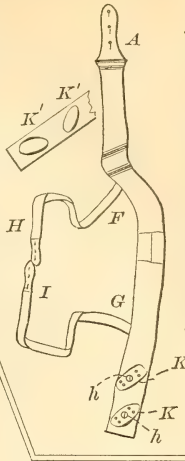


**87423**—W. McCully—*Lubricator.*

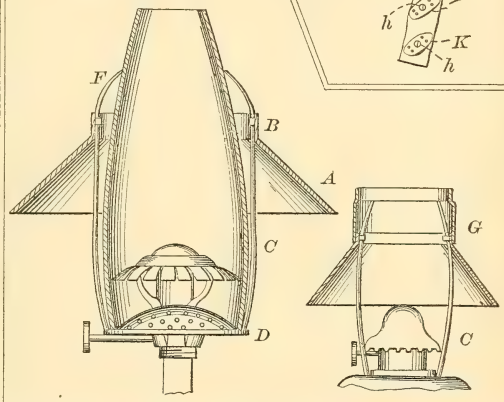



**87425**—R. McLarn—*Thatching for Grain.*

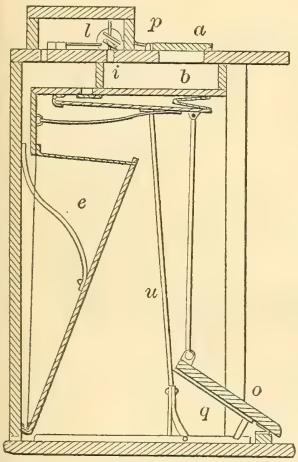
**87424**—R. McGee—*Truss Fastening.*



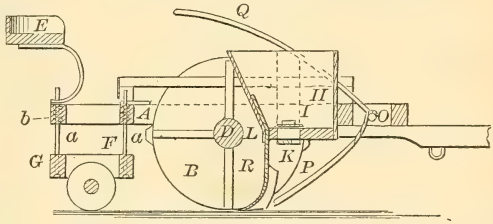

**87428**—J. F Phelps—*Lamp Shade.*



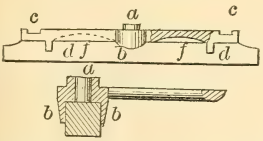

**87427**—R. W. Pain—*Tremolo for Wind Instruments.*



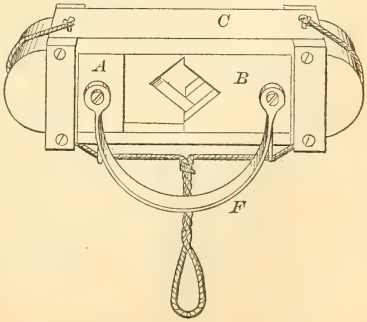

**87426**—G. Paddington—*Seeding Machine.*



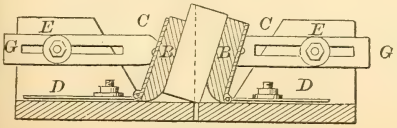

**87429**—H. Poth—*Fifth Wheel for Carriages.*



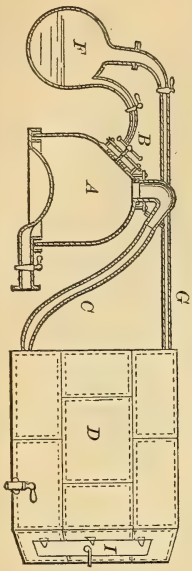

**87431**—N. L. Revere—*Centering Device.*



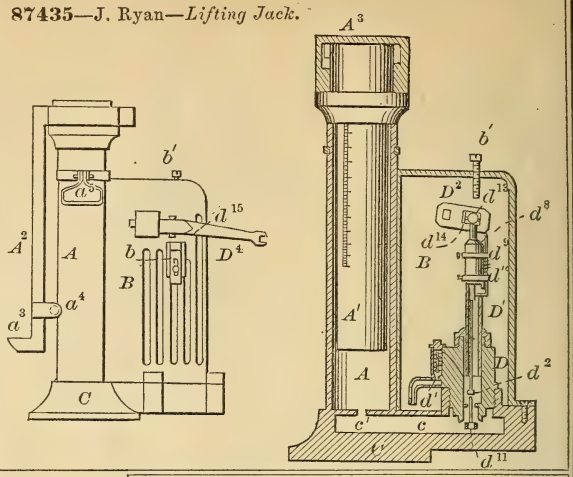

**87430**—J. H. Preston—*For Sawing Saddle Tree Stuff.*



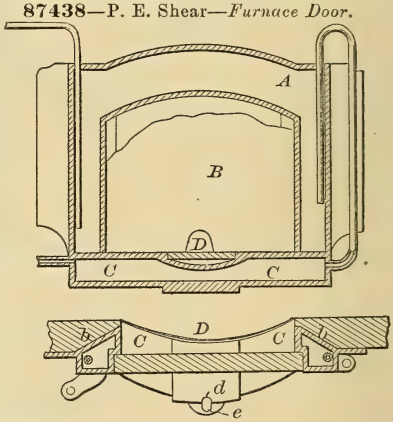
**87432**—Robbins & Southmayd—*For Preparing Bamboo Fibre.*



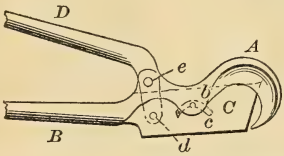

**87435**—J. Ryan—*Lifting Jack.*



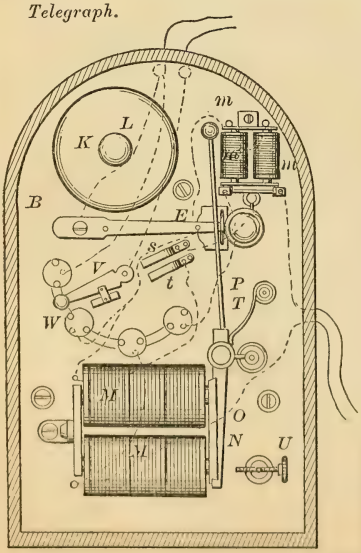

**87438**—P. E. Shear—*Furnace Door.*



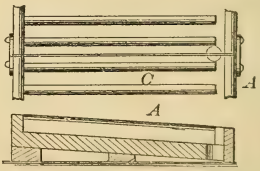

**87436**—D. B. Seeley—*Pruning Shears.*



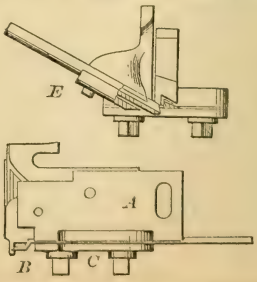

**87439**—W. R. Smiley—*Fire Alarm Telegraph.*



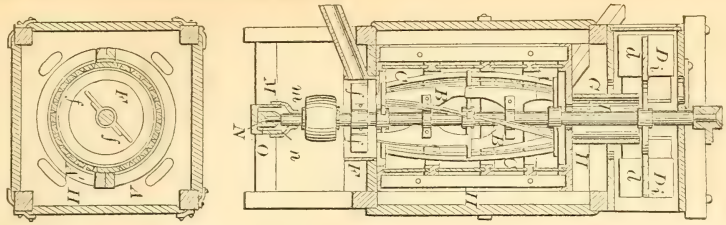

**87437**—F. C. Sexton—*Tanners' Table.*



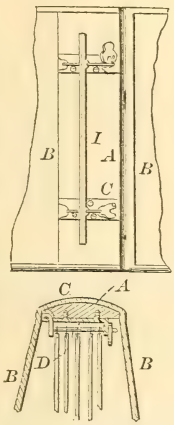

**87440**—G. W Spencer—*Shoe Knife.*



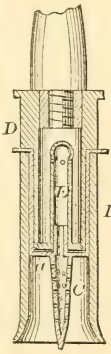
**87441**—W. P. Springer—*Smut Machine.*



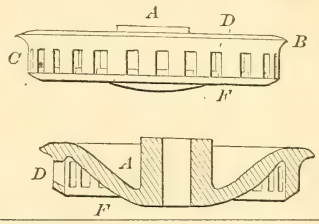
**87443**—Sullivan & Reedy—*Paper File.*



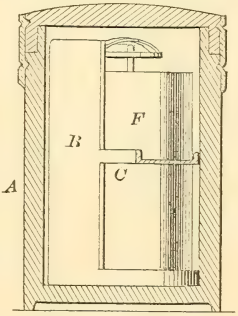
**87444**—A. Tappe—*Smoking Pipe and Cigar Holder.*



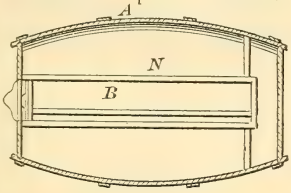
**87445**—T. R. Timby—*Car Wheel.*



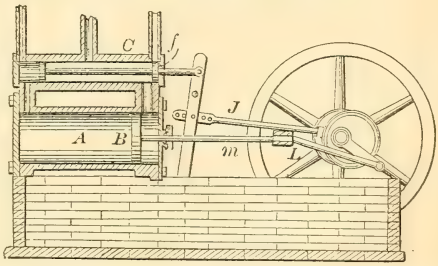
**87446**—T. R. Timby—*For Preserving Butter and other Articles.*



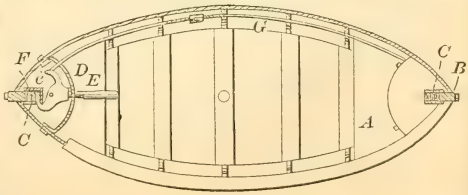
**87447**—G. Verplaetse—*Barrel.*



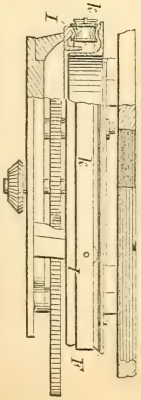
**87448**—H. B. Verry—*Valve Gearing.*



**87449**—E. Wakeman—*Boat Detaching Apparatus.*

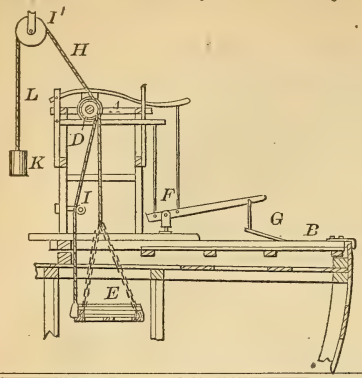


**87450**—S. Wheeler—*Horse Power.*

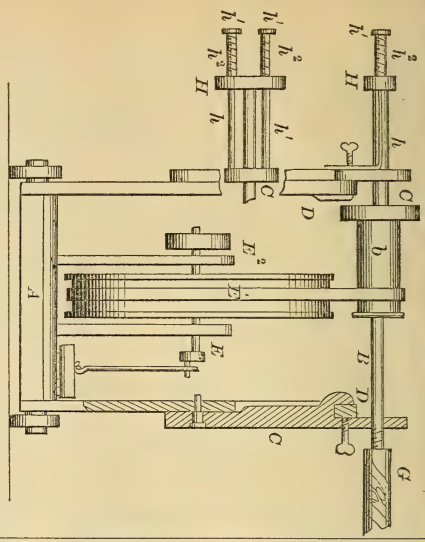


**87451**—L. F. & O. P. Whitman—*Shoe Fastening.*

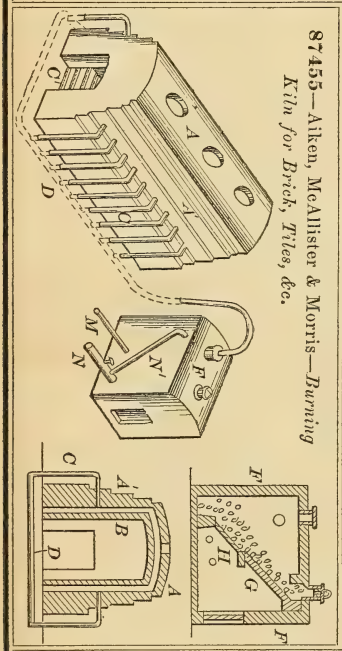
87452—P. F. Whitney—*For Loading Ice.*



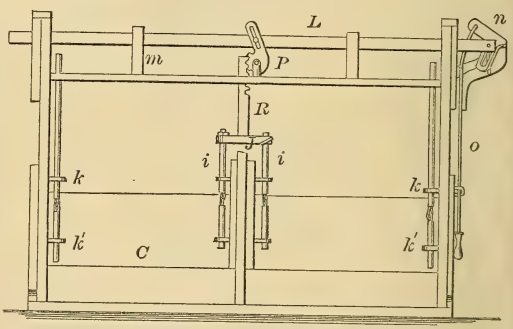

87453—D. Williamson—*Mining Machine.*



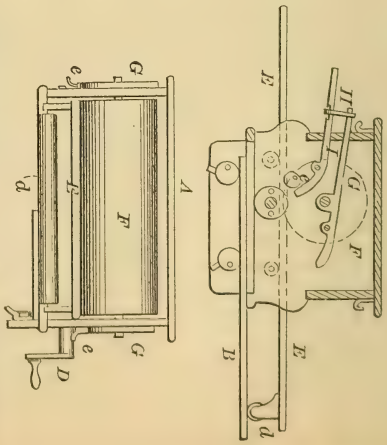

87455—Aiken, McAllister & Morris—*Burning Kiln for Brick, Tiles, &c.*



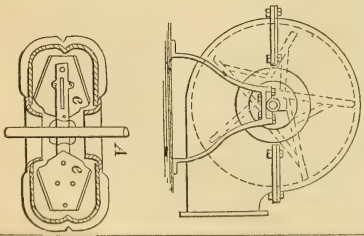

87454—C. P. Winslow—*Cattle Tie.*



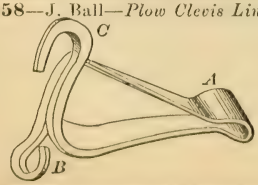

87457—D. Arndt—*Clothes Mangle.*



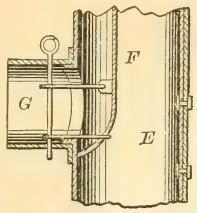

87456—H. Aland—*Fan.*



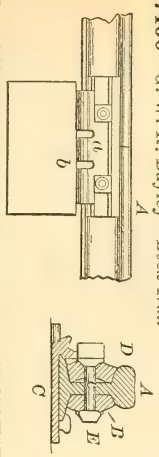

87458—J. Ball—*Plow Clevis Link.*



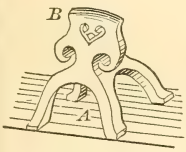
**87459**—J. W. Bates—*Stove Pipe.*



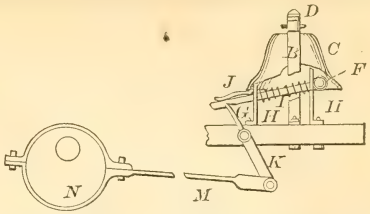

**87460**—G. W. R. Bayley—*Lock Nut.*



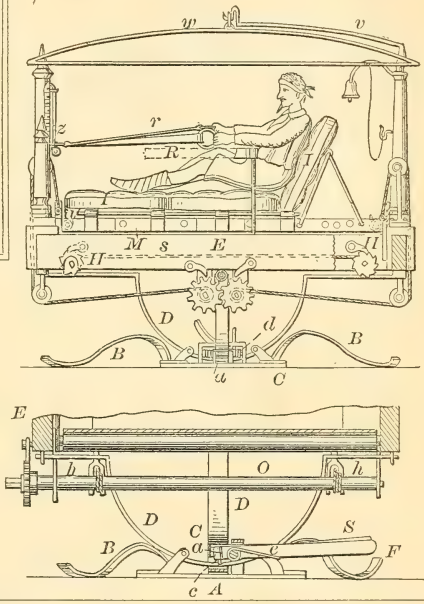

**87461**—S. Boden—*Violin Bridge.*



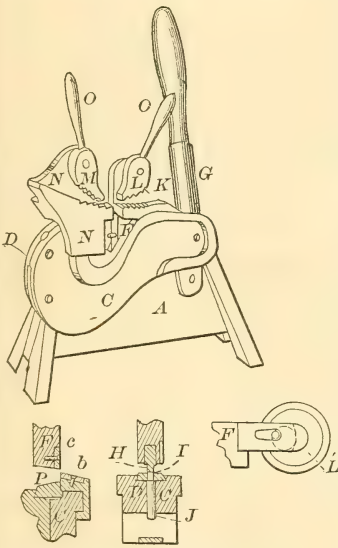

**87462**—B. Briscoe—*Locomotive Alarm Bell.*



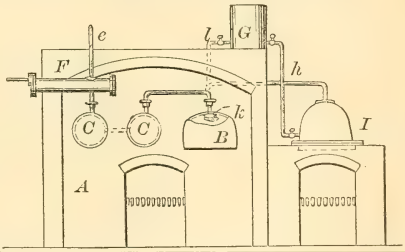

**87463**—S. S. Brown—*Bed and Bedstead.*



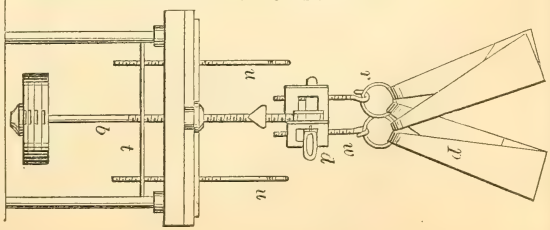

**87464**—D. C. Burdick—*Punch Shears and Iron Shrinker.*



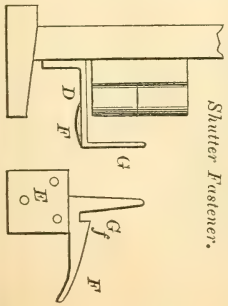

**87466**—C. Carpenter—*Gas Manufacture.*



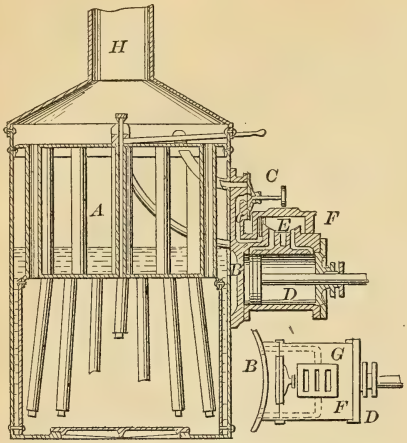

**87465**—D. P. Butler—*Lifting Apparatus.*



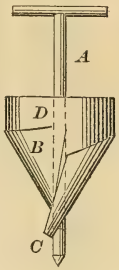

**87469**—E. S. Collamer—*Shutter Fastener.*



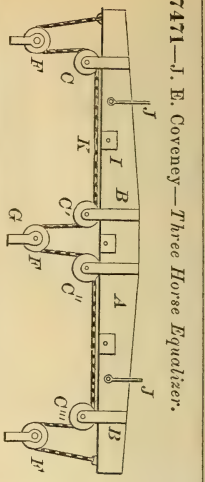
**87468**—M. R. Clapp—*Steam Engine Mechanism.*



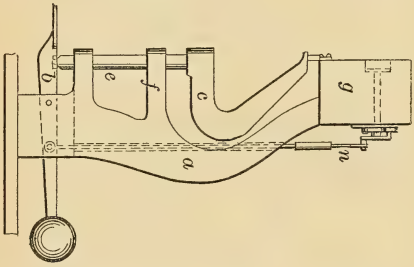

**87470**—S. W. Corbin—*Post Hole Auger.*



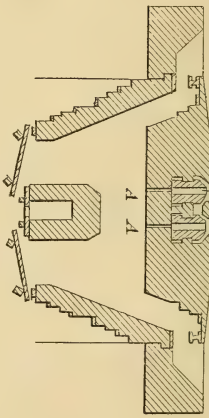

**87471**—J. E. Coveney—*Three Horse Equalizer.*



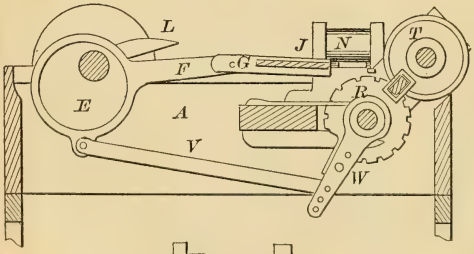

**87473**—J. B. Crosby—*Nailing or Pegging Machine.*

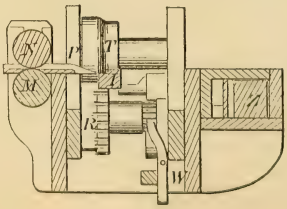


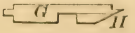

**87476**—C. M. T. du Motay—*For Burning Gases.*



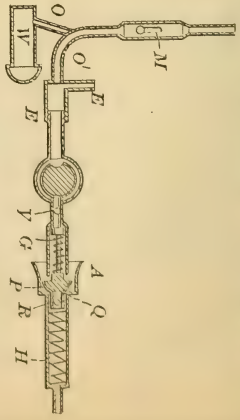

**87474**—F. Davison—*For Making Spikes.*



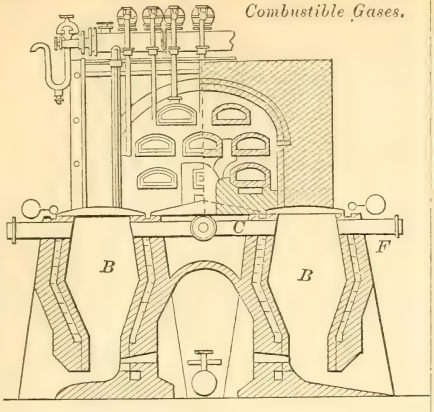



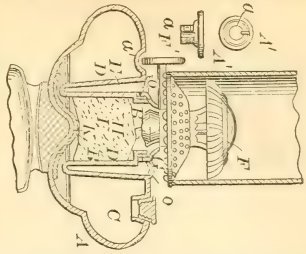

**87472**—A. C. Crary—*Railroad Car Heater.*



**87478**—C. M. T. du Motay—*For Generating Combustible Gases.*

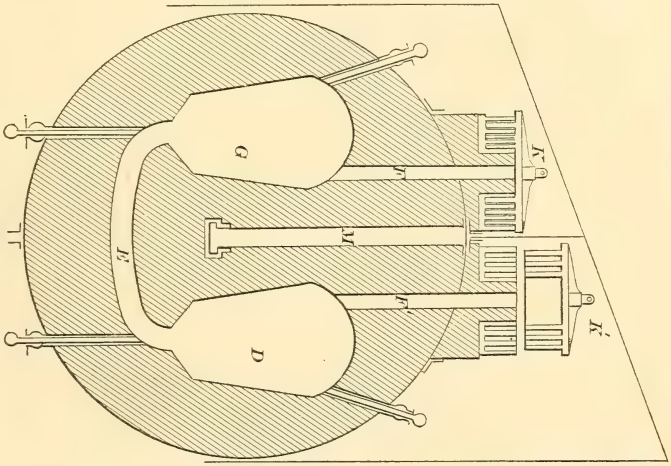



**87480**—R. N. Eagle—*Lamp Burner.*

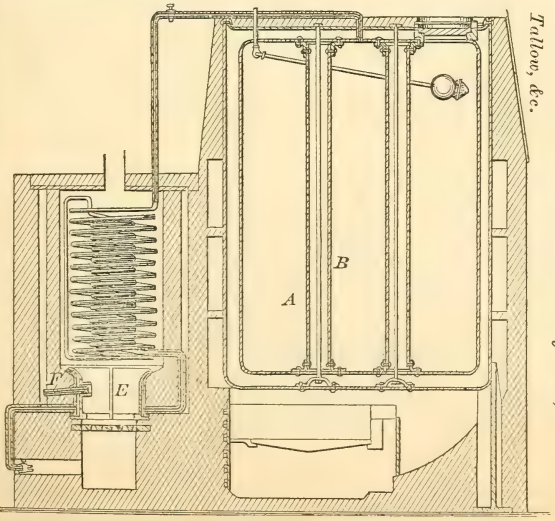



**87484**—Gero & Cooley—*Plow Point.*

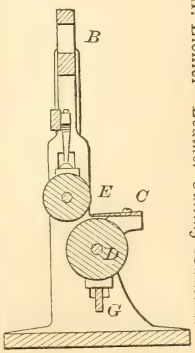
**87479**—C. M. T. du Motay—*Iron and Steel Manufacture.*



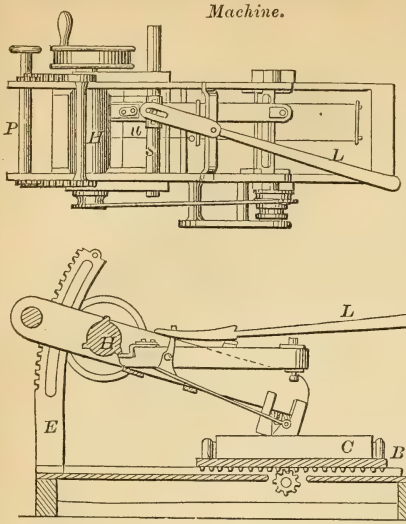

**87482**—C. J. Everett—*For Rendering Lard, Tallow, &c.*



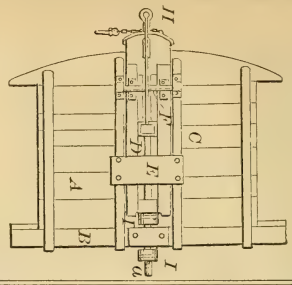

**87481**—H. Eichler—*Leather Cutting Machine.*



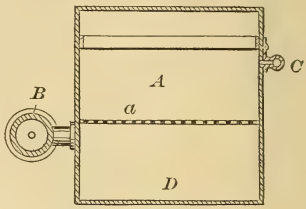
**87483**—A. M. George—*Stone Dressing Machine.*



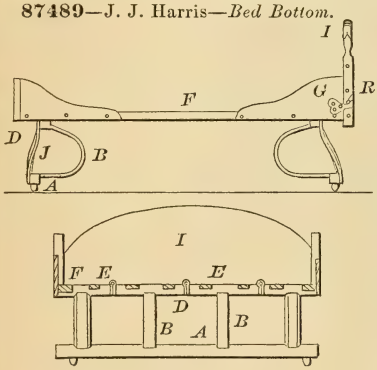

**87486**—J. C. Gove—*Street Car Draw Bar.*



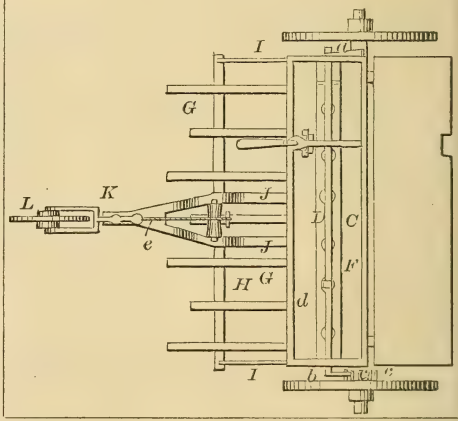

**87487**—W. H. Guild—*For Purging and Draining Sugar.*




**87489**—J. J. Harris—*Bed Bottom.*

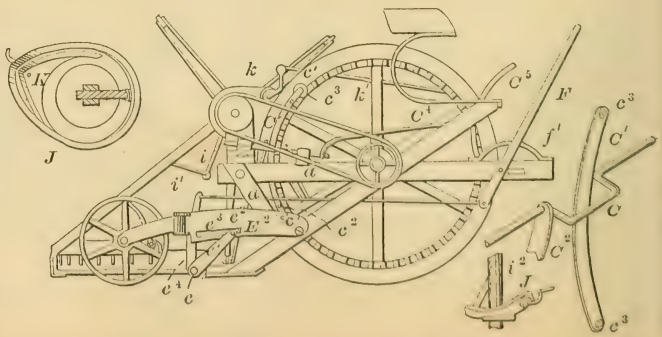



**87490**—A. Hathaway—*Seed Sower.*

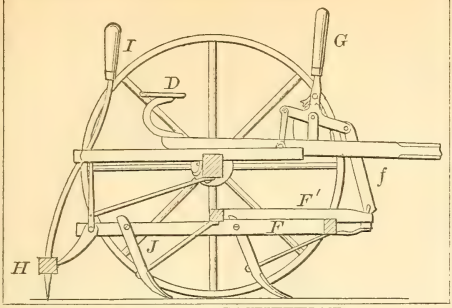



**87491**—R. Hayden—*Ice Tongs.*

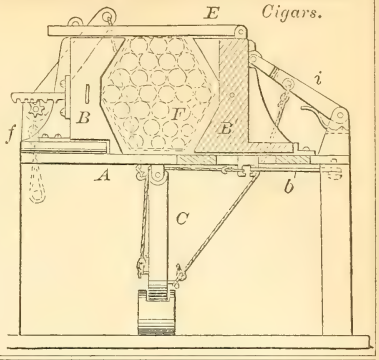
**87488**—J. C. Hall—*Harvester.*



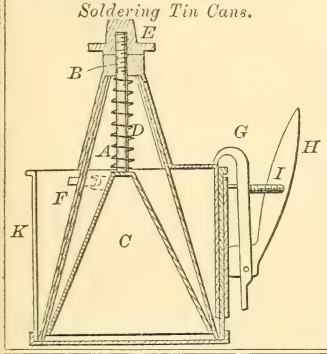
**87492**—G. J. Hayes—*Cultivator.*



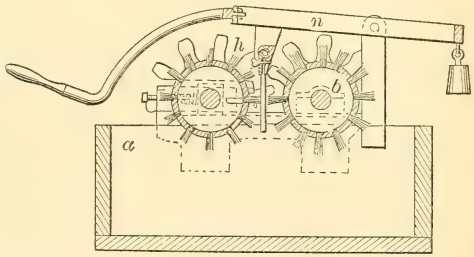

**87493**—F. A. Henckell—*For Bundling Cigars.*



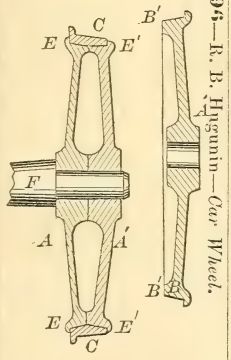

**87494**—W. H. Henderson—*For Soldering Tin Cans.*



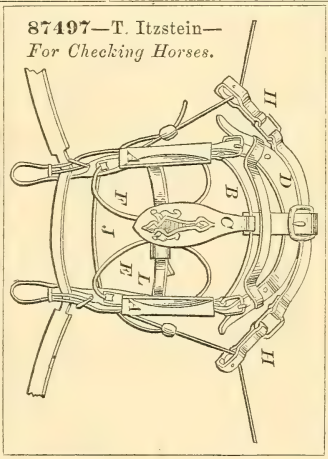

**87495**—J. W. Hopkins—*For Brushing and Napping Hats.*



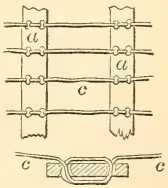

**87496**—R. B. Huguenin—*Car Wheel.*




**87497**—T. Itzstein—*For Checking Horses.*

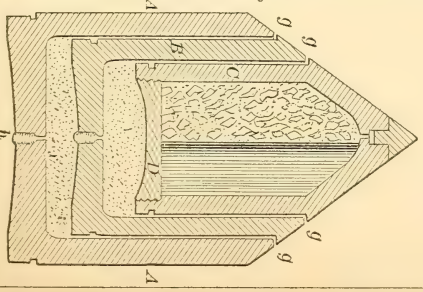



**87499**—S. B. Kline—*Fly Net.*

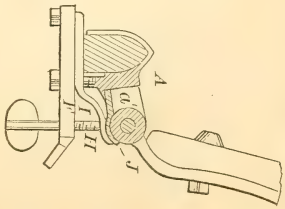



**87500**—Le G. Kniffen—*Buckle.*

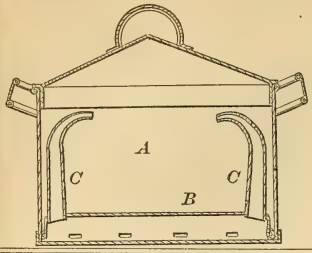
**87498**—R. H. Jones—*Projectile.*



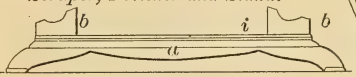

**87501**—E. Lane—*Thill Coupling.*



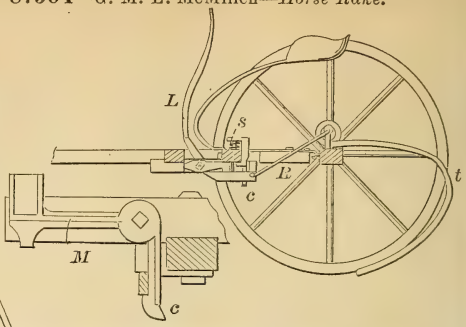
**87502**—A. Lee—*Wash Boiler.*



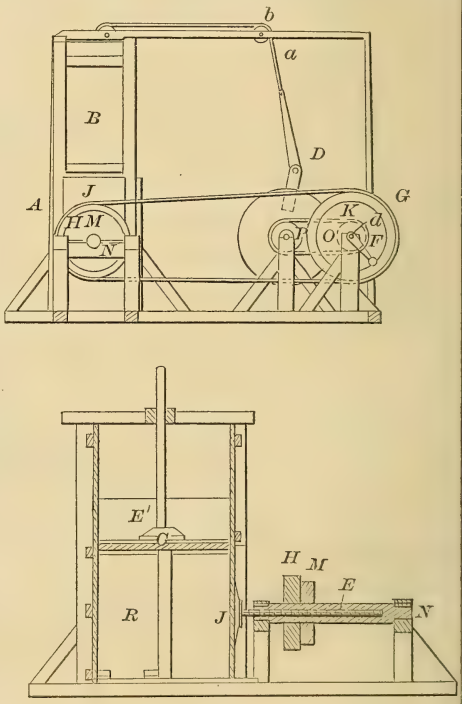

**87503**—W. B. Mason—*Flat Iron Scraper, Polisher and Stand.*



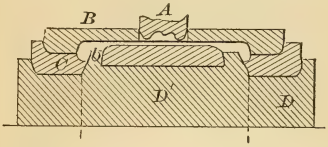

**87504**—G. M. L. McMillen—*Horse Rake.*



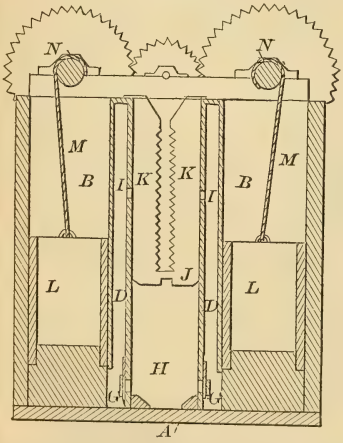

**87505**—J. J. Morrison—*Cotton Press.*



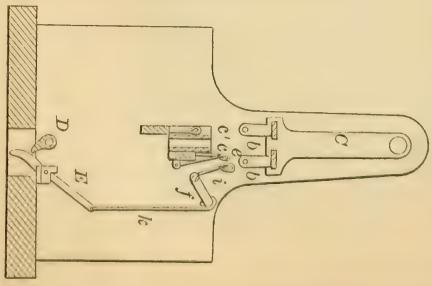

**87506**—T. G. Otterson—*Glass Mould.*



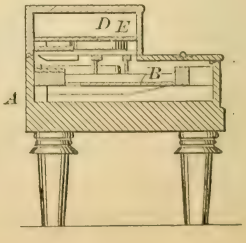

**87507**—D. O. Paige—*For Hardening Steel.*



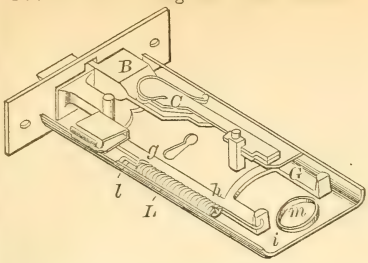

**87508**—R. Peberdy—*Knitting Machine.*



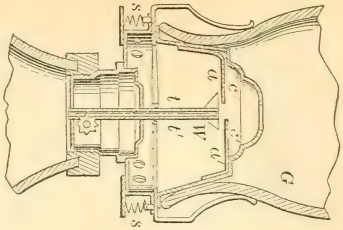

**87509**—D. T. Peck—*Piano Forte.*



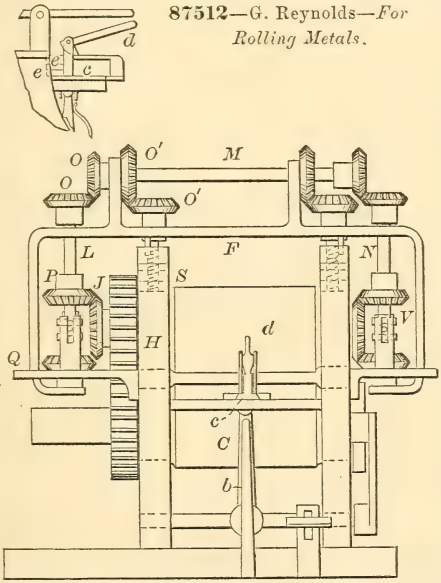
**87510**—F. P. Pfleghar—*Knob Latch.*



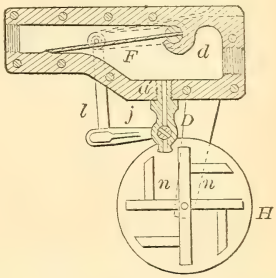

**87511**—J. Pons—*Lamp Extinguisher.*



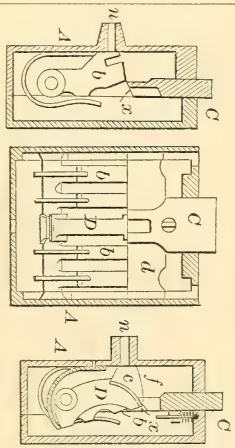

**87512**—G. Reynolds—*For Rolling Metals.*



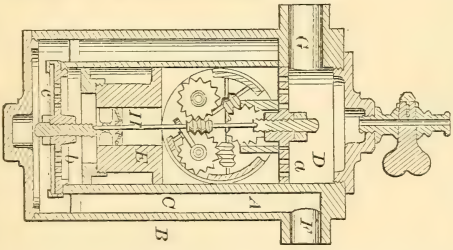

**87513**—I. Robbins—*Water Meter.*



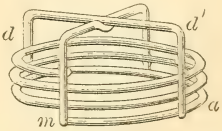

**87514**—I. Robbins—*Lock.*



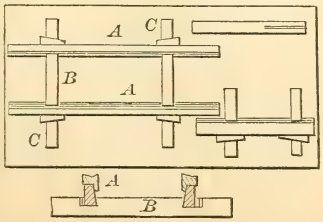

**87516**—T. A. Searle—*Liquid Meter.*



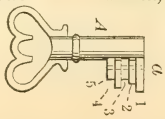

**87515**—S. B. Rowley—*Fastening for Fruit Jars.*



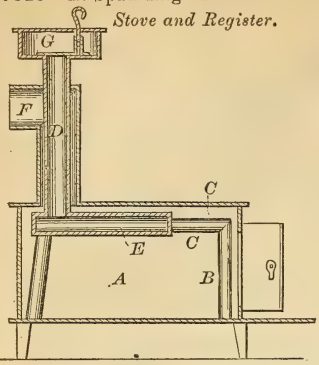

**87517**—J. Y. Smith—*Wooden Railway.*



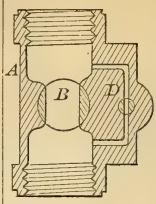

**87518**—F. W. Smith, Jr.—*Key.*



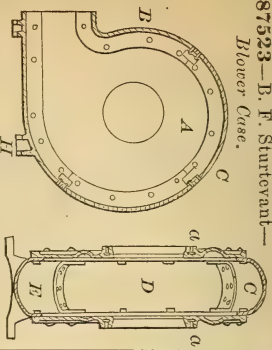
87519—E. Spaulding—*Furnace Stove and Register.*



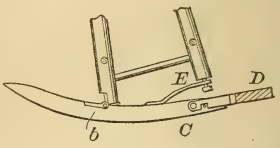

87522—M. Stratton—*Gas Cock.*



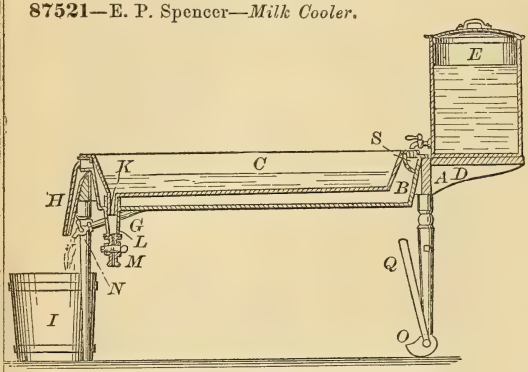

87523—B. F. Sturtevant—*Blower Case.*



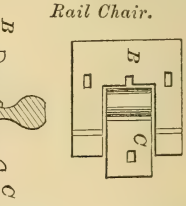

87520—G. H. Spaulding—*Chair.*



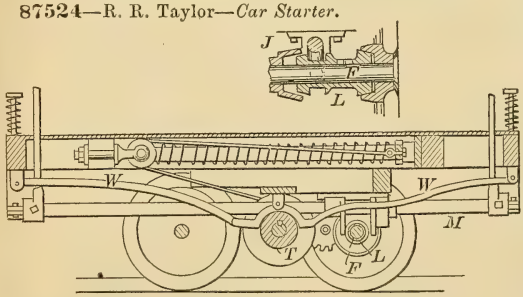

87521—E. P. Spencer—*Milk Cooler.*



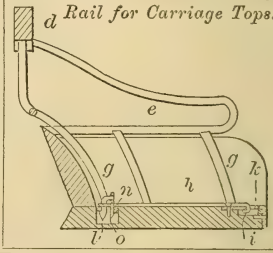

87525—G. Tefft—*Railway Rail Chair.*



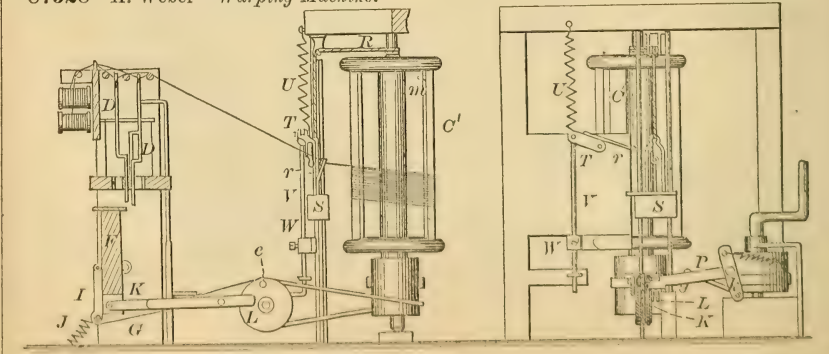

87524—R. R. Taylor—*Car Starter.*



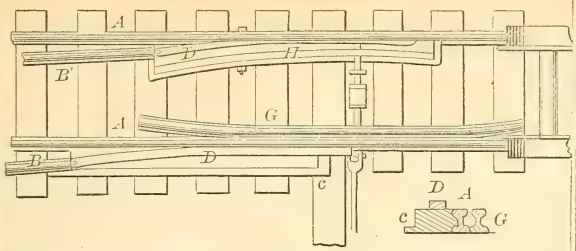

87527—J. J. Waldron—*Shifting Rail for Carriage Tops.*



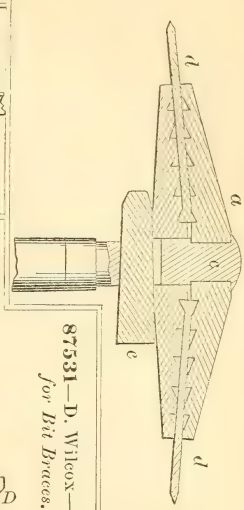

87528—H. Weber—*Warping Machine.*



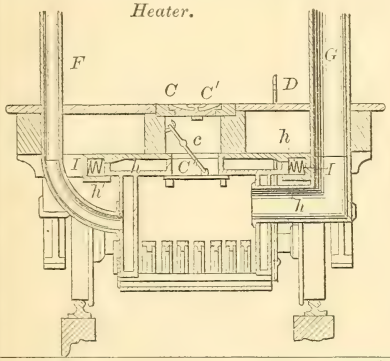
**87529**—W. Wharton, Jr.—*Railway Switch.*



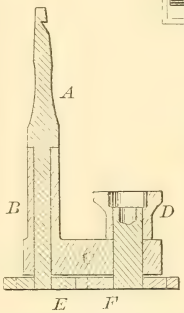

**87530**—C. Whitehouse—*For Dressing Millstones.*



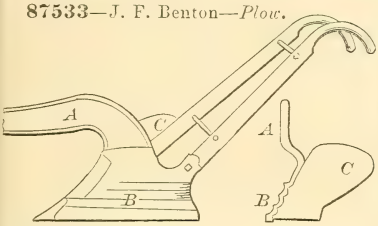

**87532**—W. H. Beal—*Railroad Car Heater.*



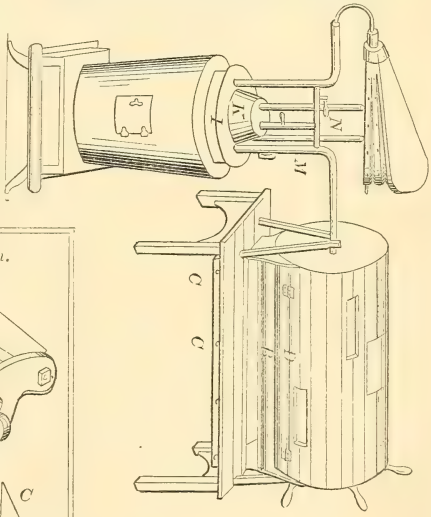

**87531**—D. Wilcox—*Wrench for Bit Braces.*



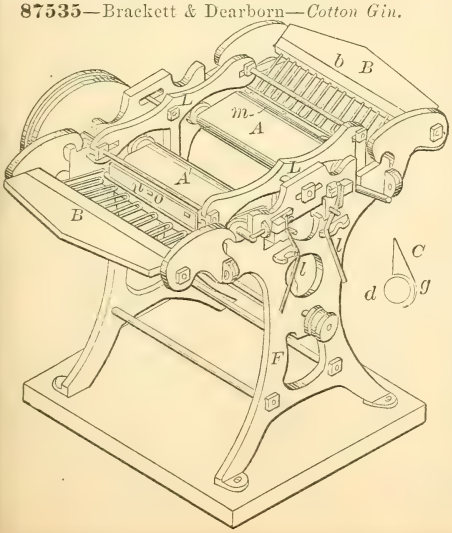

**87533**—J. F. Benton—*Plow.*



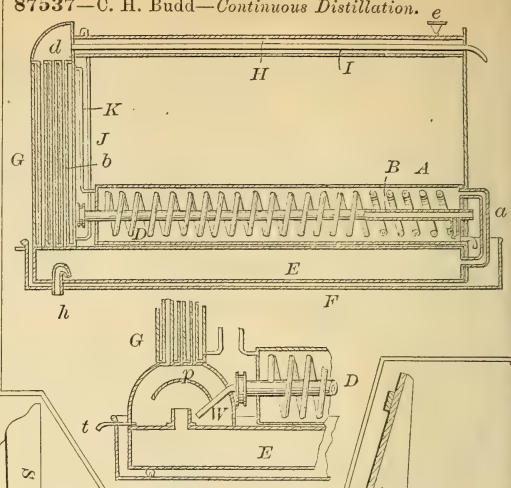

**87534**—L. F. Blair—*Feather Renovator.*



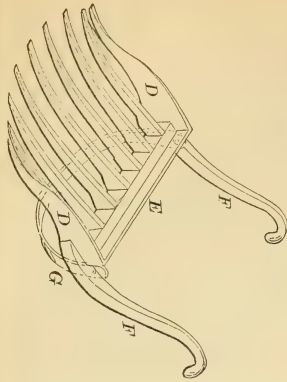

**87535**—Brackett & Dearborn—*Cotton Gin.*



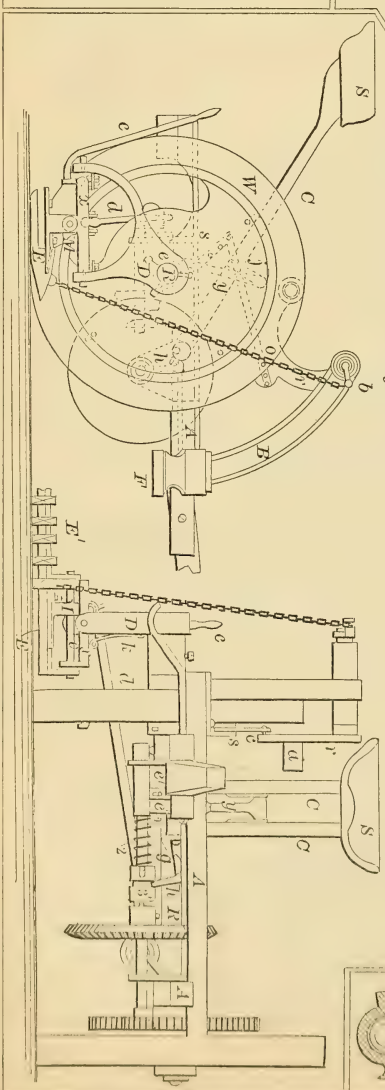
87537—C. H. Budd—*Continuous Distillation.*



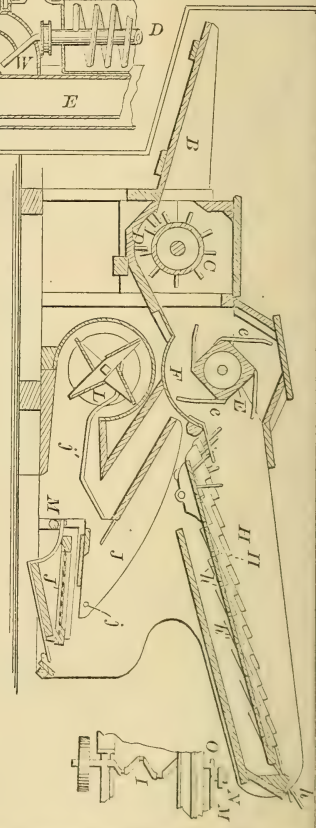

87536—J. I. Brinkerhoff—*Potato Digger.*



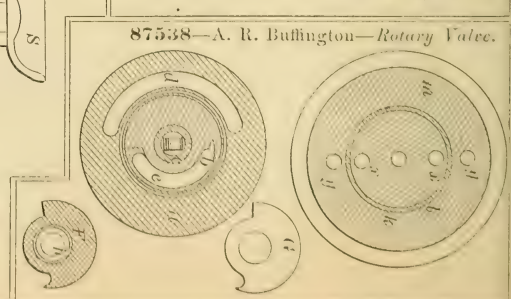

87539—G. E. Burt—*Mowing Machine.*



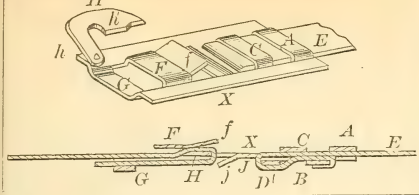

87540—J. W. Cardwell—*Thresher and Separator.*



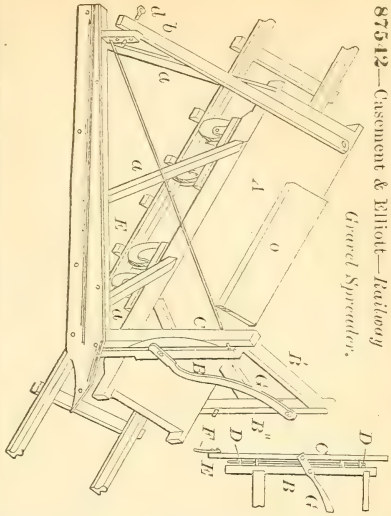

87538—A. R. Buffington—*Rotary Valve.*



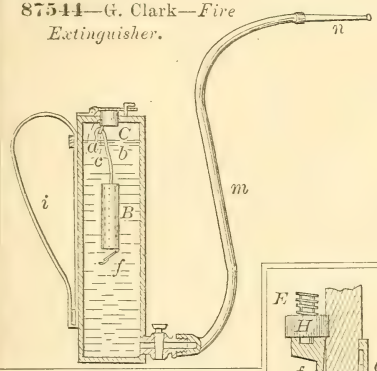
**87541**—J. S. Carson—*Cotton Bale Tie.*



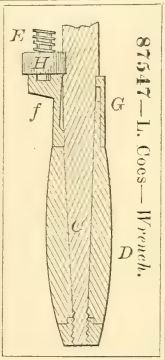

**87542**—Casement & Elliott—*Railway Gravel Spreader.*



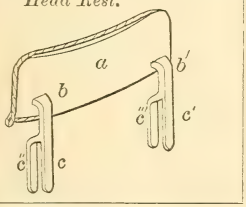

**87544**—G. Clark—*Fire Extinguisher.*



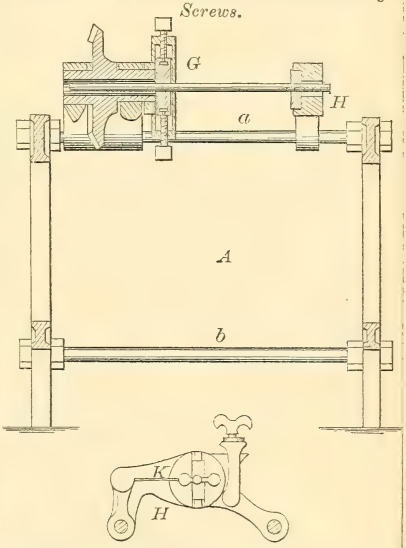

**87547**—L. Coes—*Wrench.*



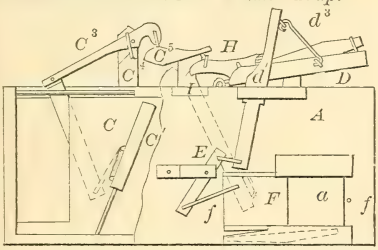

**87543**—H. E. Churchill—*Head Rest.*



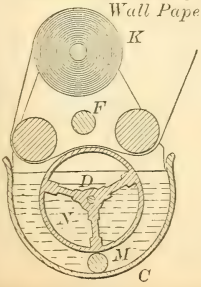

**87546**—J. A. Cleaveland—*For Threading Screws.*



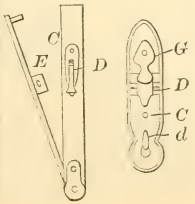

**87548**—H. H. Cottrill—*Animal Trap.*



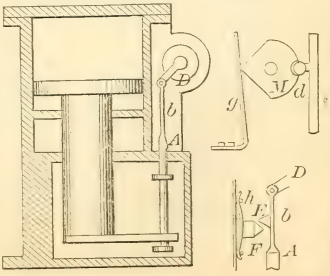

**87545**—A. H. Clay—*For Pasting and Hanging Wall Paper.*



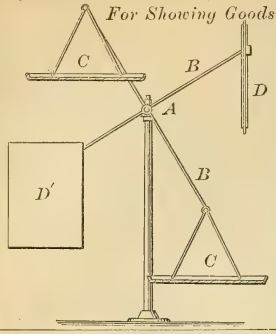

**87549**—G. Crouch—*Carpet Bag Catch.*



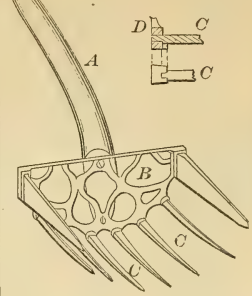

**87550**—G. H. & C. P. Deane & Gardiner—*Steam Engine.*



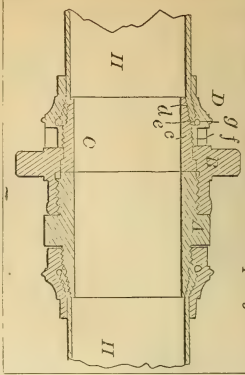
**87551**—T. Dickinson, Jr.—*For Showing Goods.*



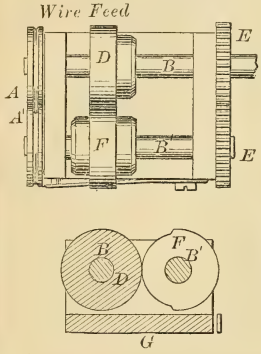

**87553**—H. Doolittle—*Fingered Scoop.*



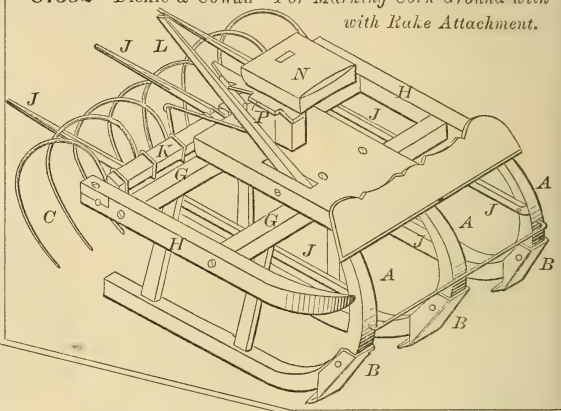

**87554**—J. Edson—*Hose Coupling.*



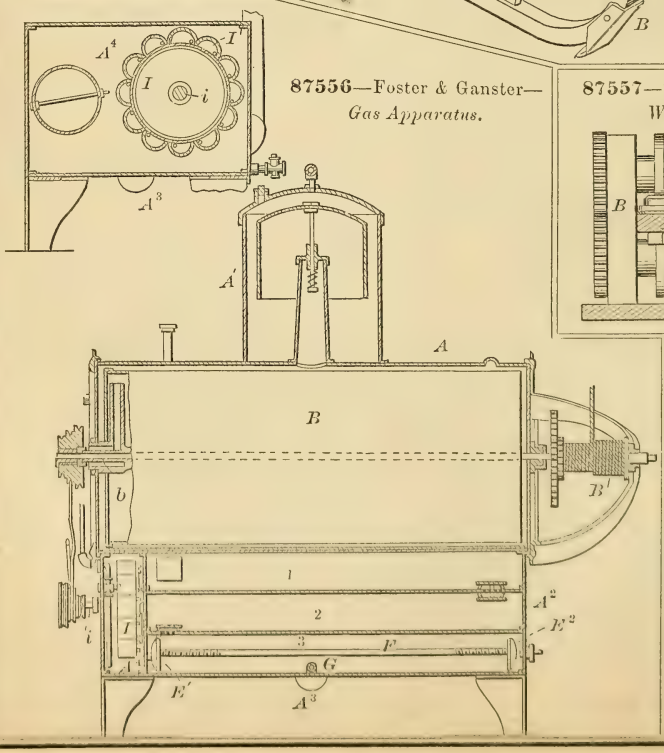

**87555**—W. A. Foskett—*Wire Feed*



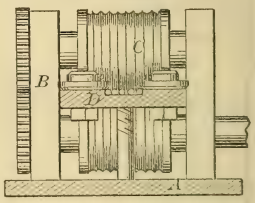

**87552**—Dickle & Cowan—*For Marking Corn Ground with with Rake Attachment.*



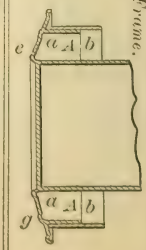

**87556**—Foster & Ganster—*Gas Apparatus.*



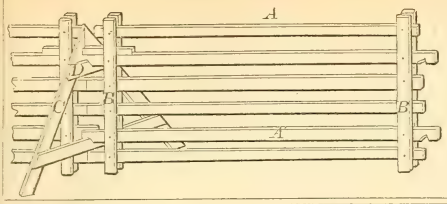

**87557**—T. Fowler—*For Wire Strips.*



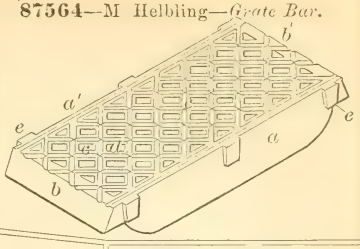

**87560**—Gommenginger & Trotter—*Register Frame.*



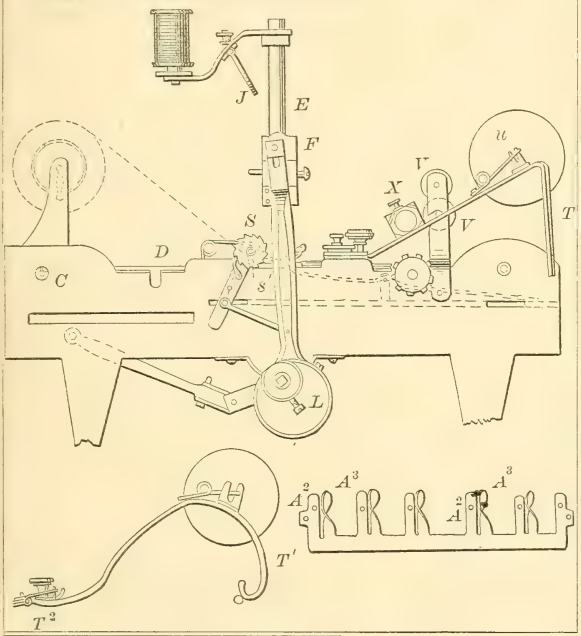
**87558**—M. J. Gaskill—*Fence.*



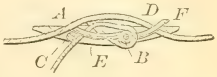

**87564**—M Helbling—*Grate Bar.*



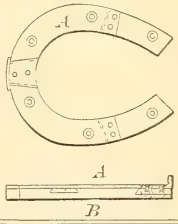

**87559**—E. D. Gird—*Sewing Machine.*



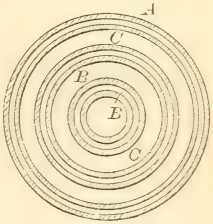

**87563**—M. Hancline—*Buckle.*



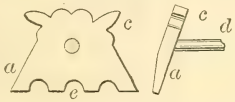

**87565**—J. A. Heyl—*Horse Shoe.*



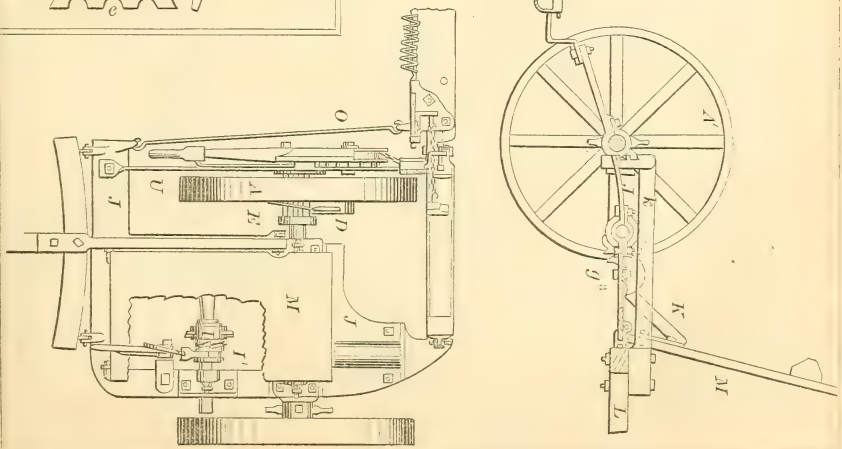

**87568**—G. H. Johnson—*Grain Bin.*



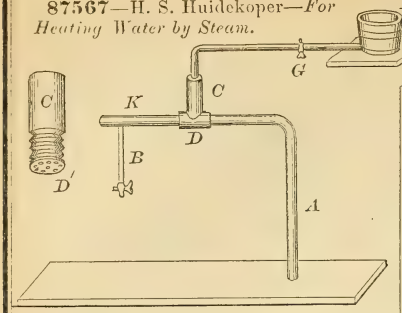

**87566**—O. A. Hill—*Bridge for Playing Pool.*



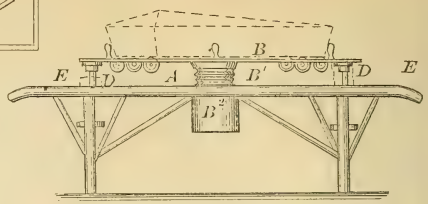

**87561**—A. B. Graham—*Harvester.*



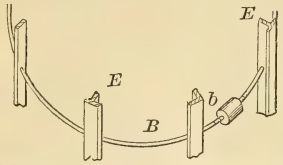
**87567**—H. S. Huidekoper—*For Heating Water by Steam.*



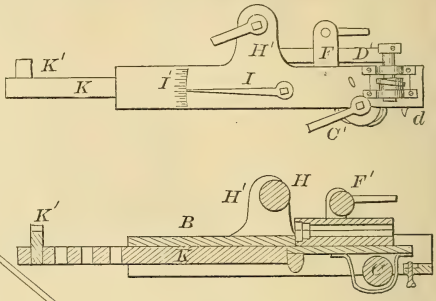

**87570**—P. Joyce—*Coffin Bier.*



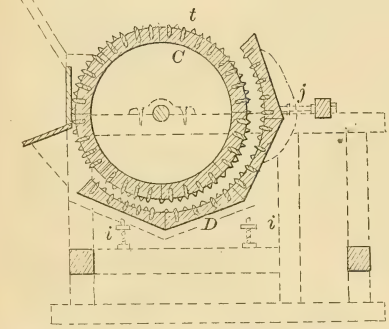

**87569**—G. H. Johnson—*Bracing for Cylindrical Structures.*



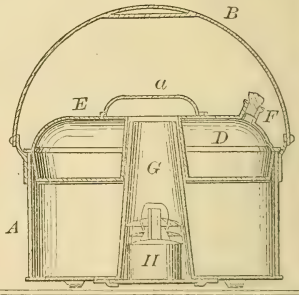

**87571**—H. R. Ladd—*Axle Set.*



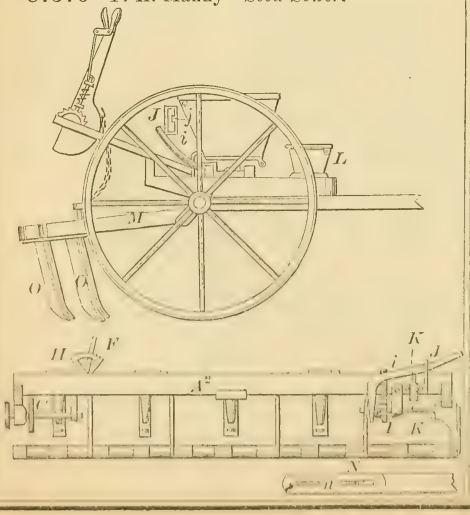

**87573**—J. Lusk—*For Grating Fodder.*



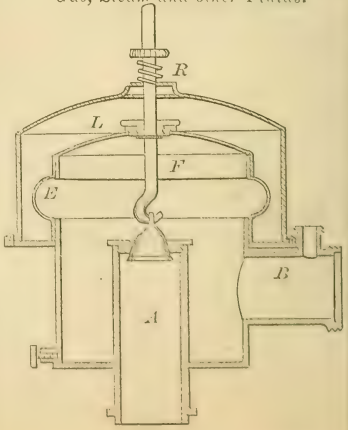

**87574**—A. Macqueen—*Dinner Pail.*



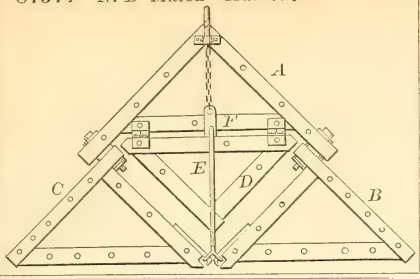

**87576**—F. H. Manny—*Seed Sower.*



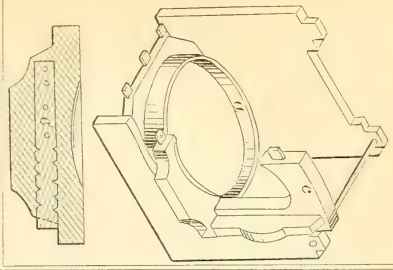

**87575**—E. C. Maldant—*Regulator for Gas, Steam and other Fluids.*



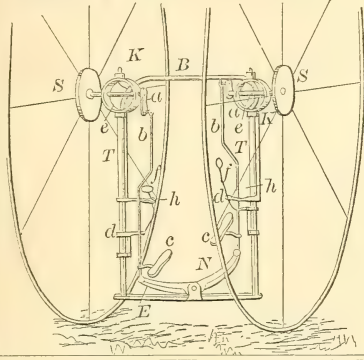
87577—N. B Marsh—*Harrow.*



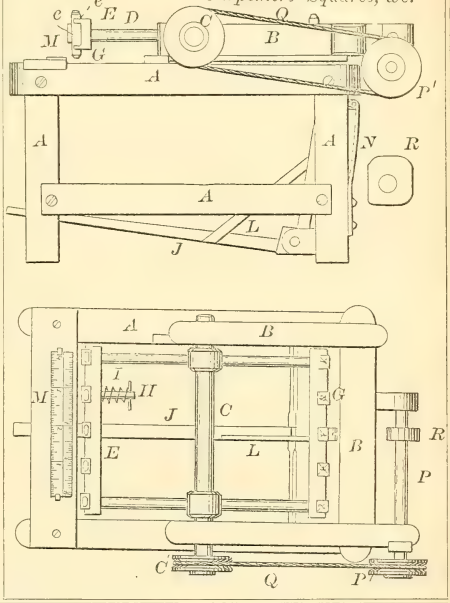

87578—H. McDonald—*Furnace.*



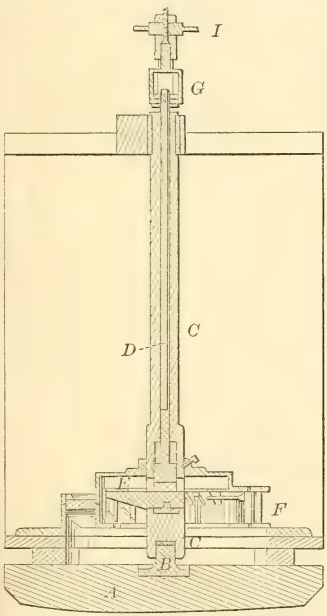
87579—W. McKerahan—*Velocipede.*



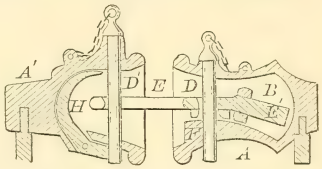

87581—N. Millington—*For Figuring Carpenters' Squares, &c.*



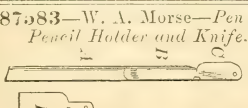

87585—J. Newlin—*Turbine Water Wheel.*



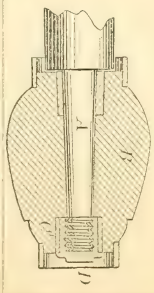

87582—H. T. Moody—*Car Coupling.*



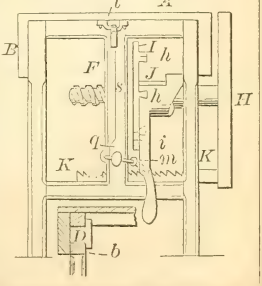

87583—W. A. Morse—*Pen and Pencil Holder and Knife.*



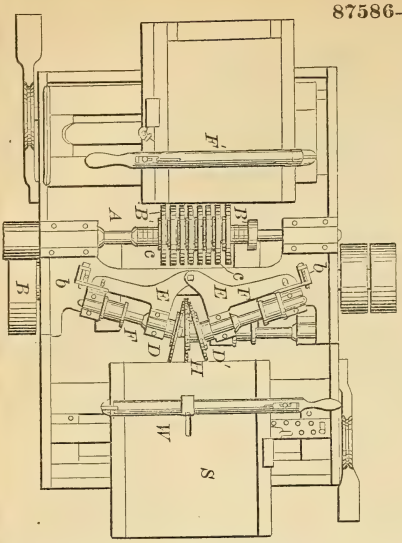

87580—F. McManus—*Wagon Axle.*

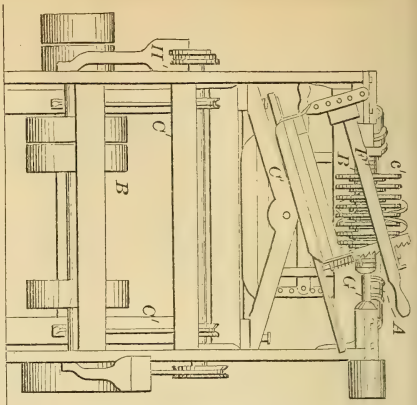



87584—H. W. Neary—*Work Bench.*

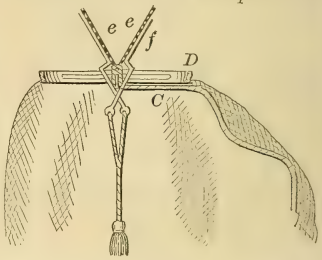


87586—Ohlemacher & Kromer—*Dovetailing Machine.*

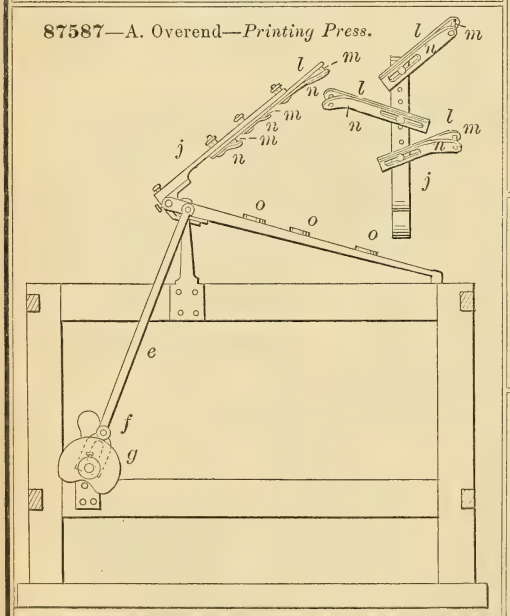




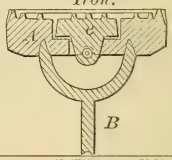
87589—J. B. Platt—*Mosquito Bar.*



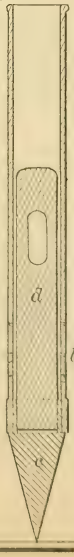
87587—A. Overend—*Printing Press.*



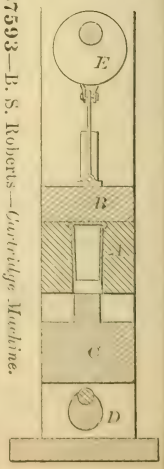
87588—F. L. Pennoy—*Branding Iron.*



87592—R. Rich—*Tube Weld.*



87593—B. S. Roberts—*Cartridge Machine.*



87590—M. H. Pool—*Last.*

Fig. 1

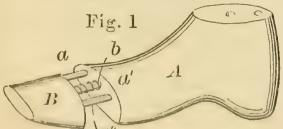


Fig. 2

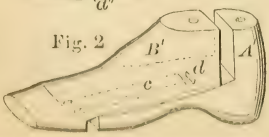
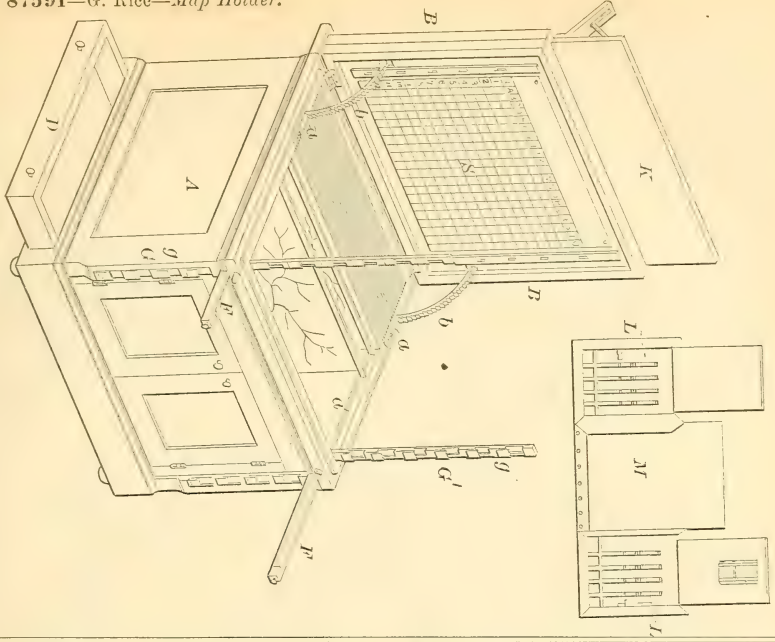


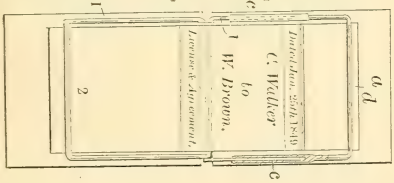
Fig. 4

Fig. 3

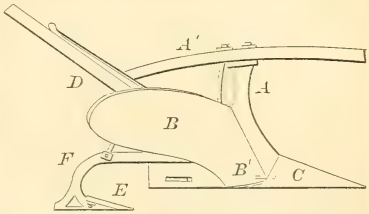
**87591**—G. Rice—*Map Holder.*



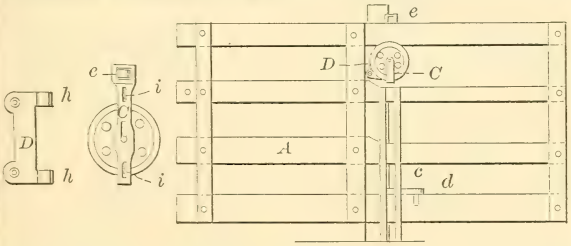

**87598**—A. P. Stephens—*Paper File.*

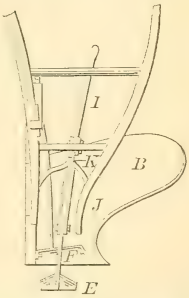



**87594**—G. Robinson—*Plow.*

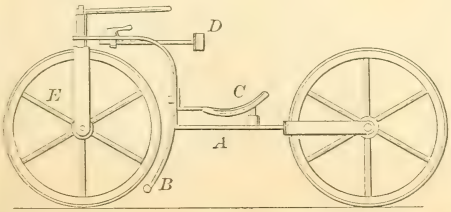



**87600**—J. G. Talbot—*Gate.*

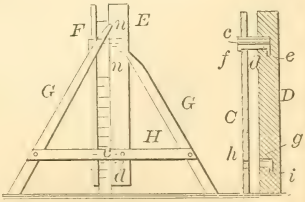


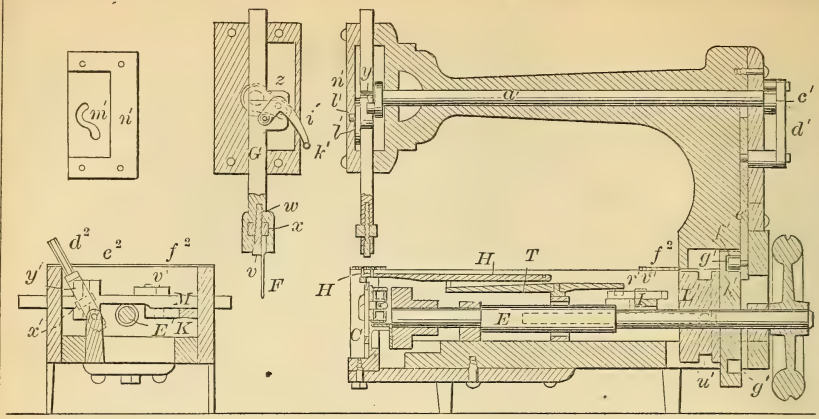

**87596**—M. B. Stafford—*Velocipede.*

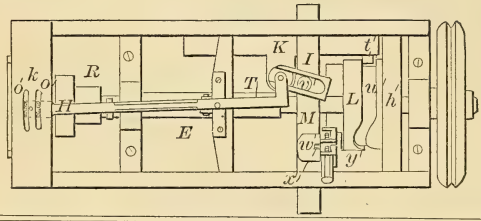



**87597**—J. K. Staman—*Fence.*

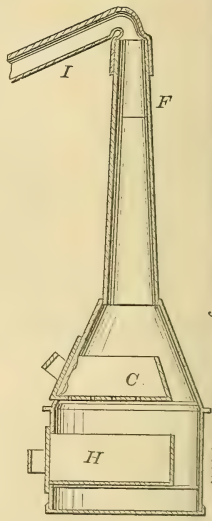


**87595**—D. H. Rogan—*Sewing Machine.*

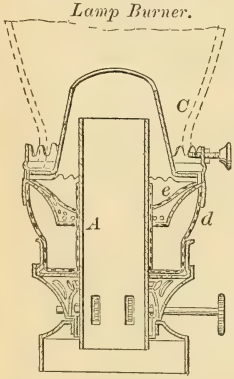


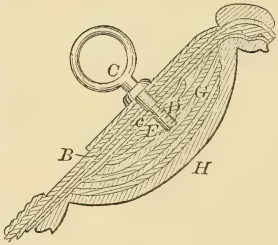

**87603**—G. H. Tichenor—*Inhaler for Throat Disease.*



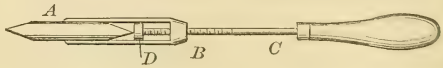

**87601**—A. Thirault—*Lamp Burner.*



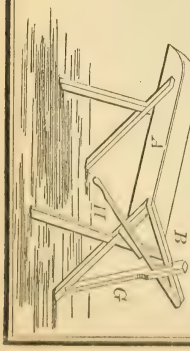

**87606**—J. Waite—*Harness Saddle.*



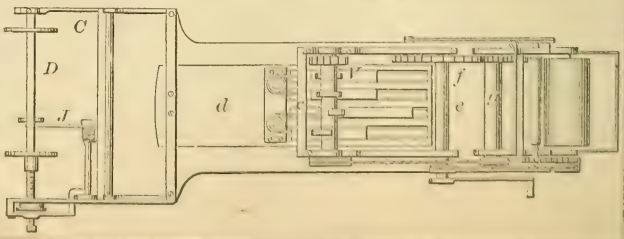

**87604**—W. H. Trissler—*Soldering Iron.*



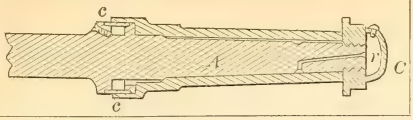

**87602**—E. R. Thompson—*Stone Cutter.*



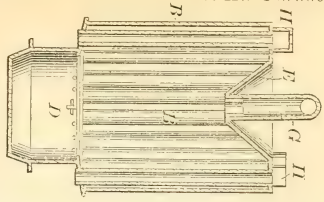

**87608**—J. Wells—*Paper Bag Machinery.*



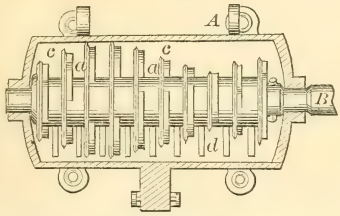
**87609**—J. T. Wilson—*Carriage Axle.*



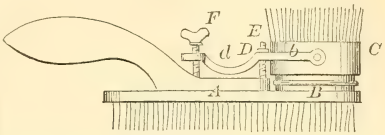

**87610**—I T. Winchester—*Hot Air Furnace.*



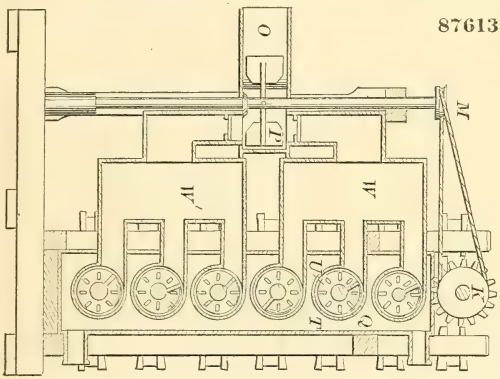

**87611**—O. D. Woodruff—*Meat Cutter.*

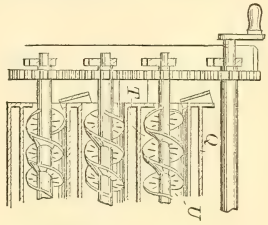



**87614**—R. Adams—*Blacking Brush.*

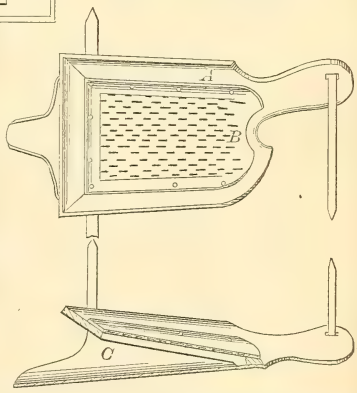



**87613**—E. A. Abbott—*Grain Dryer.*

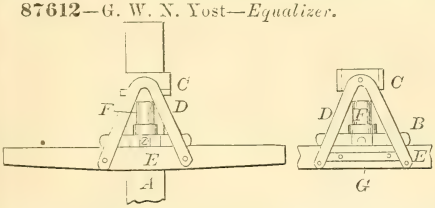


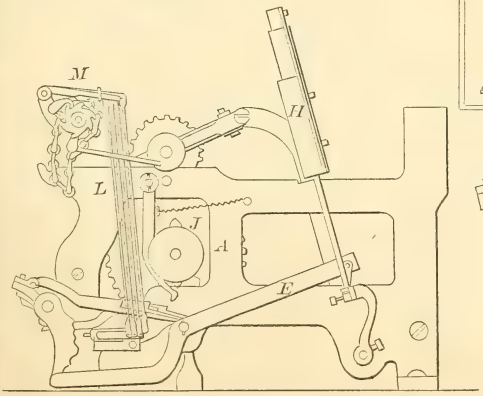

**87615**—J. C. Andrew—*Feeding Shoe for Grinding Mills.*

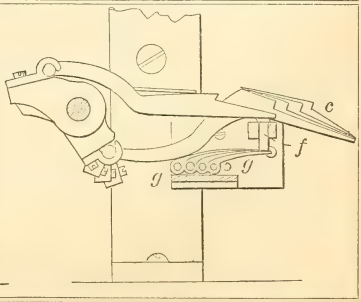



**87612**—G. W. N. Yost—*Equalizer.*

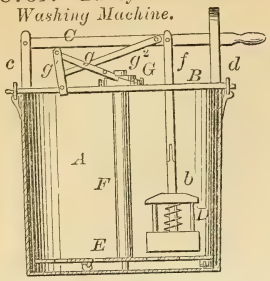



**87616**—J. Ashworth—*Loom.*

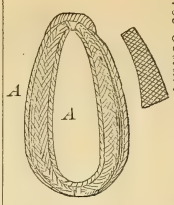


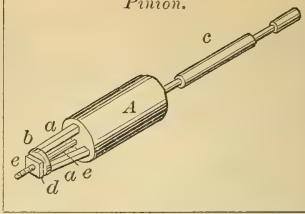
**87617**—Bailey & Blanchard—*Washing Machine.*



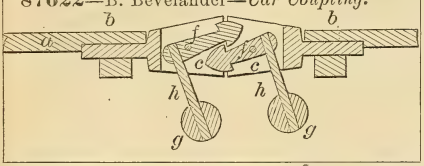

**87619**—S. W. Baker—*Horse Collar.*



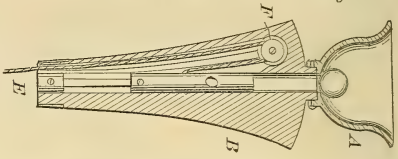

**87623**—V. W. Blanchard—*Pinion.*



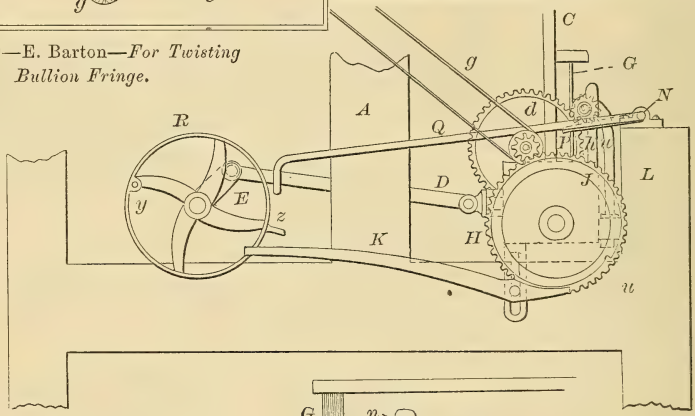

**87622**—B. Bevelander—*Car Coupling.*

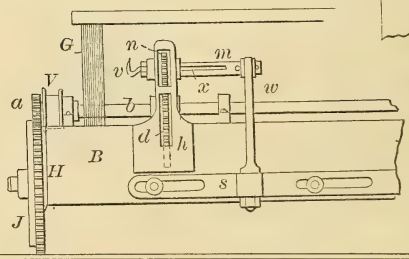



**87621**—E. S. Belton—*Toy.*

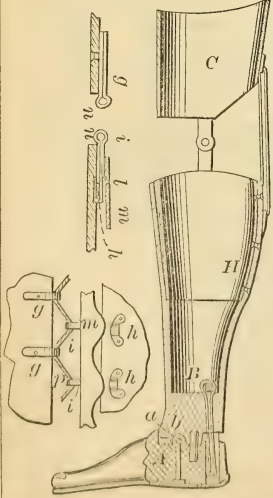



**87620**—E. Barton—*For Twisting Bullion Fringe.*

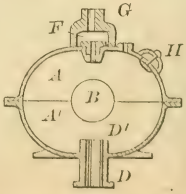


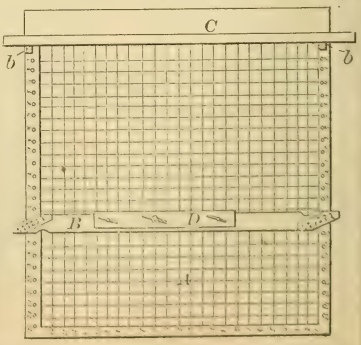

**87624**—D. Bly—*Artificial Leg.*



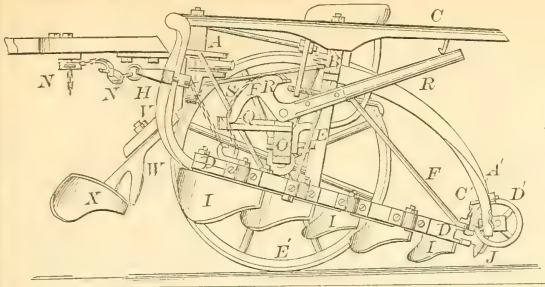

**87625**—J. W. Bookwalter—*Water Wheel Casing.*

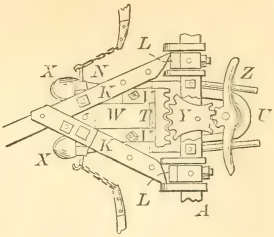



**87626**—F. Bowly—*For Glass Cutting*

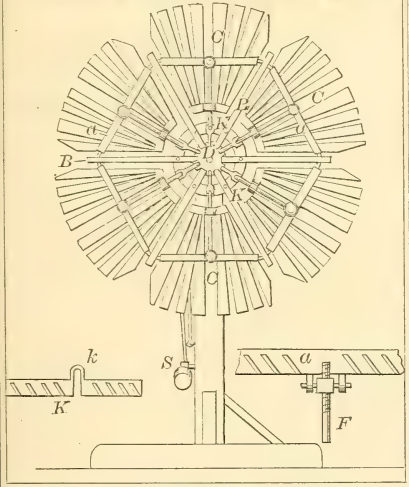


**87627**—H. C. Briggs—*Hoeing Machine.*

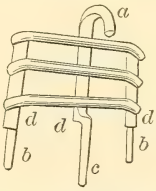


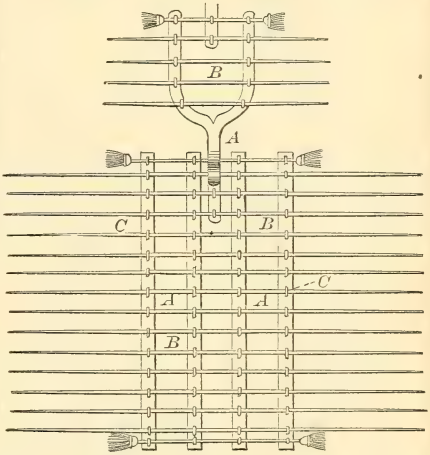

**87628**—A. P. Brown—*Wind Wheel.*



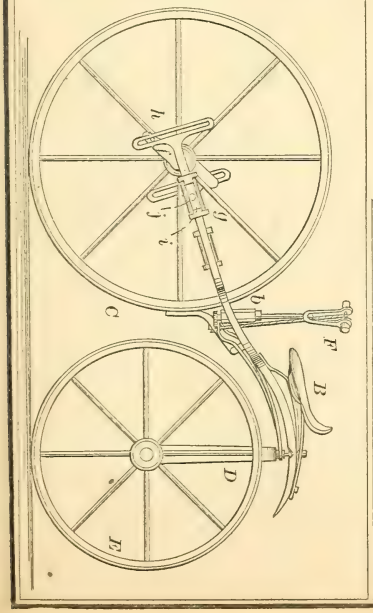

**87629**—G. Buchanan—*Grate Fender.*



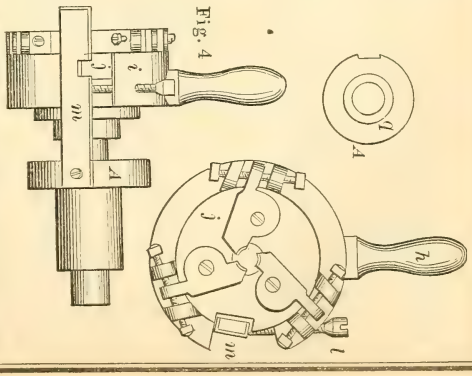

**87631**—J. Cantner—*Fly Net for Horses.*



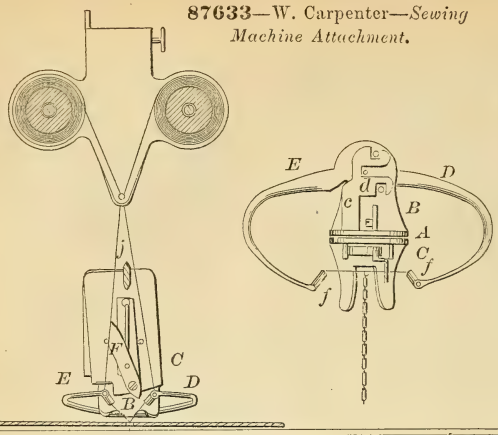

**87630**—J. Burns—*Velocipede.*



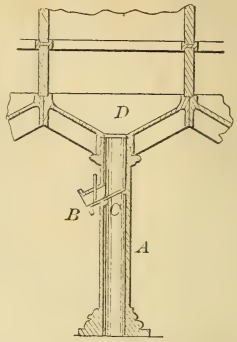

**87632**—J. M. Carpenter—*Cutting Threads on Pipes.*



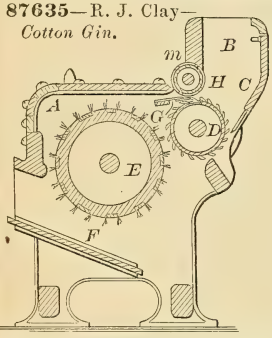
**87633**—W. Carpenter—*Sewing Machine Attachment.*



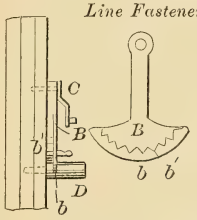

**87634**—G. Clark—*Grain Storehouse.*



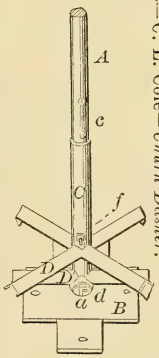

**87635**—R. J. Clay—*Cotton Gin.*



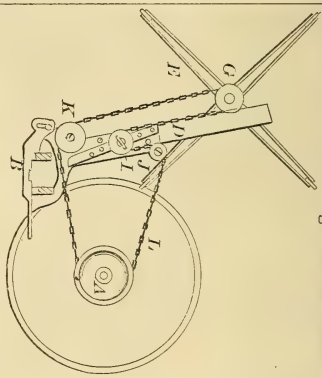

**87636**—F. Clymer—*Clothes Line Fastener.*



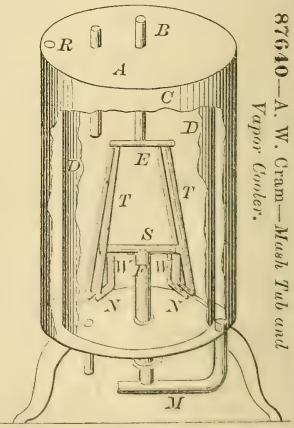

**87638**—C. L. Cole—*Churn Dasher.*



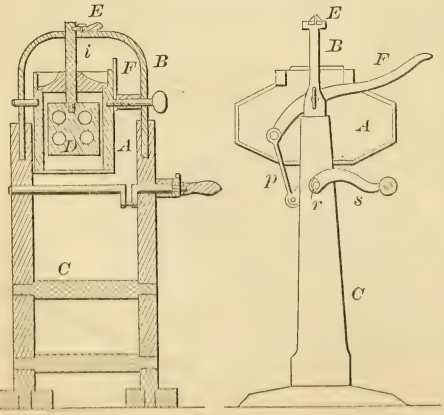

**87637**—J. F. Coddington—*Harvester.*



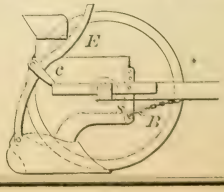

**87640**—A. W. Cram—*Mash Tub and Vapor Cooler.*



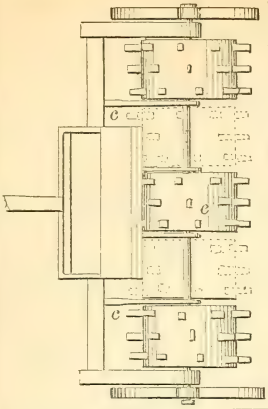

**87639**—E. Coleman—*Churn.*



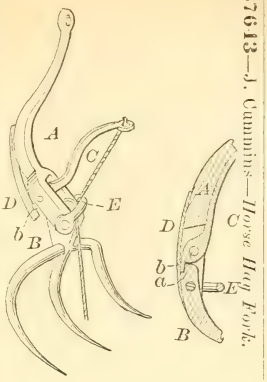

**87641**—H. Culver—*Plow.*



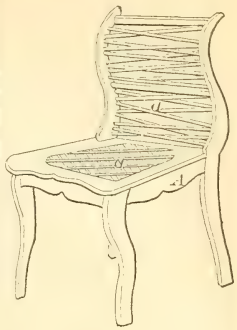
**87642**—H. Culver—*Harrow and Cultivator.*



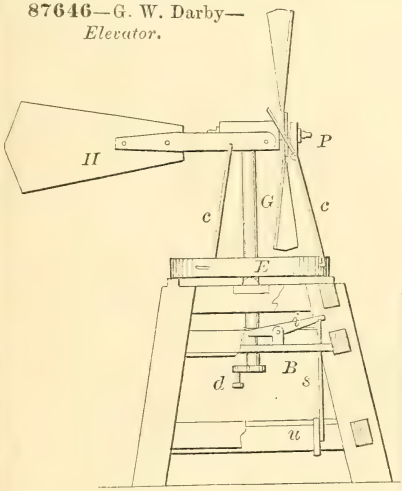

**87643**—J. Cummins—*Horse Hay Fork.*

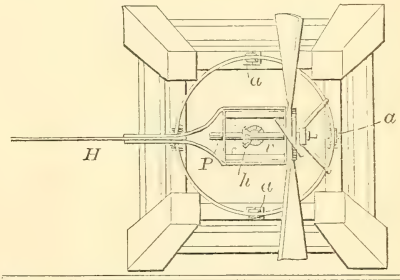



**87644**—L. Daft—*Chair Seat &c.*

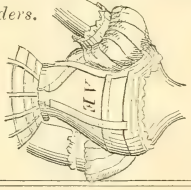



**87646**—G. W. Darby—*Elevator.*

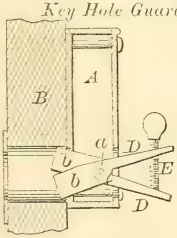


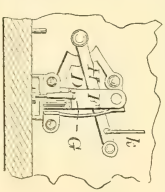

**87648**—Demorest & Cook—*Brace and Suspenders.*

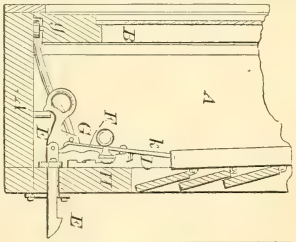



**87645**—W. E. Dante—*Key Hole Guard.*

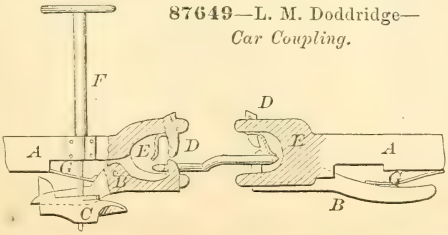



**87647**—W. J. Decker—*Blind and Shutter Fastening.*

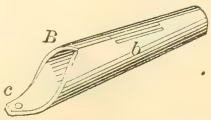


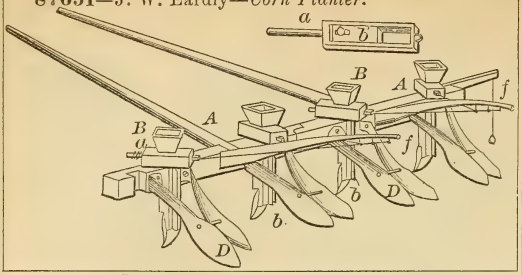

**87649**—L. M. Doddridge—*Car Coupling.*



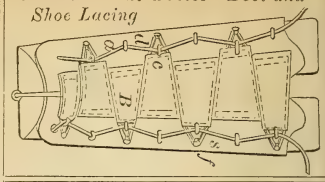

**87652**—M. Ehrgott—*Thimble Skein for Axles.*



**87651**—J. W. Eardly—*Corn Planter.*

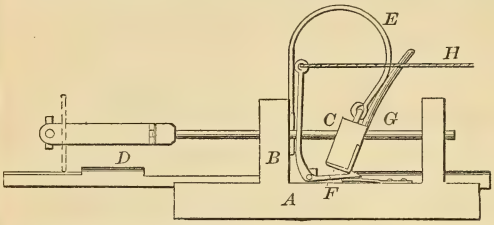



**87655**—P. S. Foster—*Boot and Shoe Lacing*

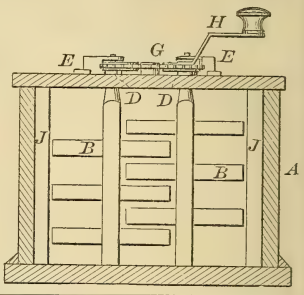



**87656**—A. Frederick—*Millstone Balance.*

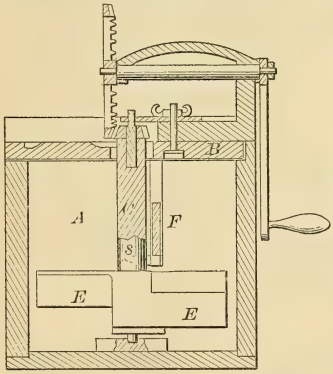
**87654**—M. E. Ezell—*Fire Kindler.*



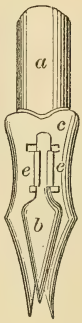

**87657**—A. S. Galliher—*Churn.*



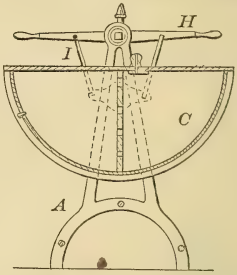

**87660**—J. L. Good—*Churn.*



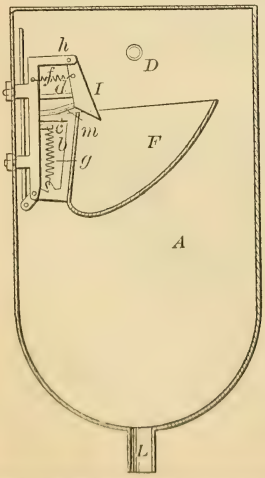

**87661**—H. S. Goodspeed—*Pen.*

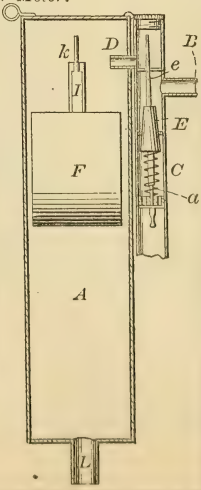



**87659**—J. Gattner—*Churn.*

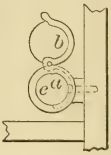



**87664**—A. W. Hall—*Water Meter.*

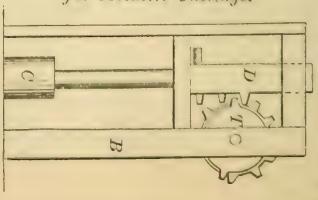


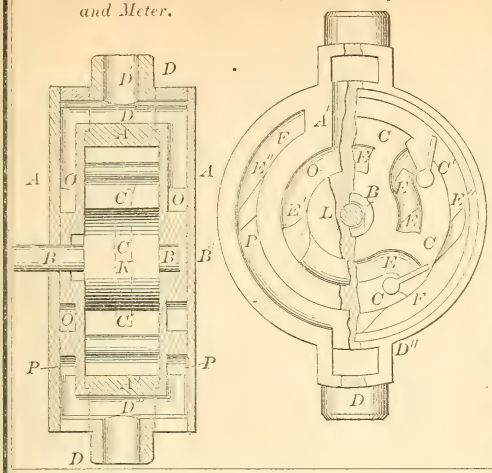

**87662**—W. B. Gould—*Stair Rod.*



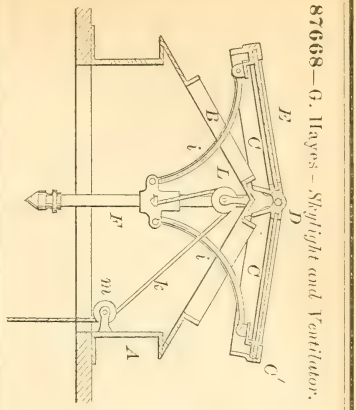

**87663**—W. Hainsworth—*Mould for Metallic Castings.*



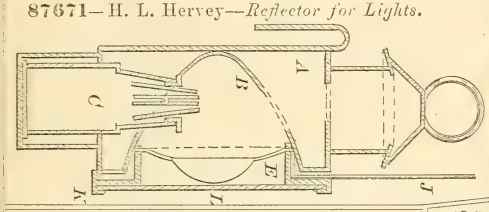
**87665**—W. & W. Hamilton, Jr.—*Rotary Motor and Meter.*



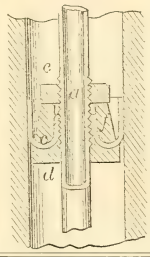
**87668**—G. Hayes—*Skylight and Ventilator.*



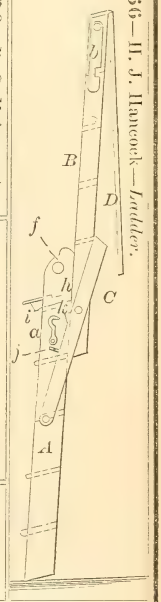
**87671**—H. L. Hervey—*Reflector for Lights.*



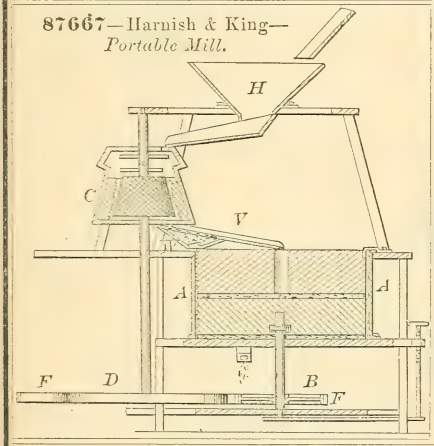
**87670**—P. C. Heinz—*Packing for Artesian Wells.*



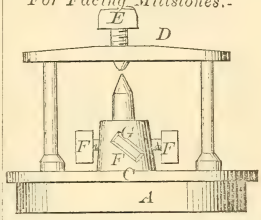
**87666**—H. J. Hancock—*Ladder.*



**87667**—Harnish & King—*Portable Mill.*

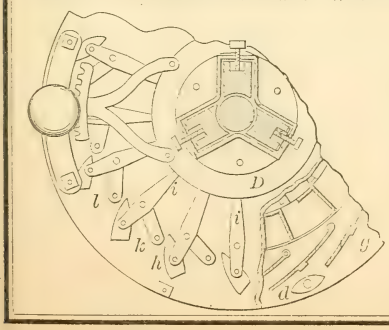


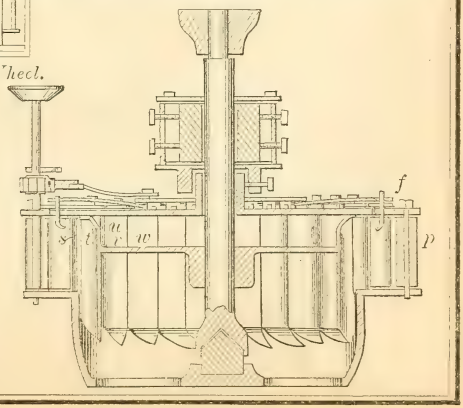
**87669**—A. Heartsill—*For Facing Millstones.*



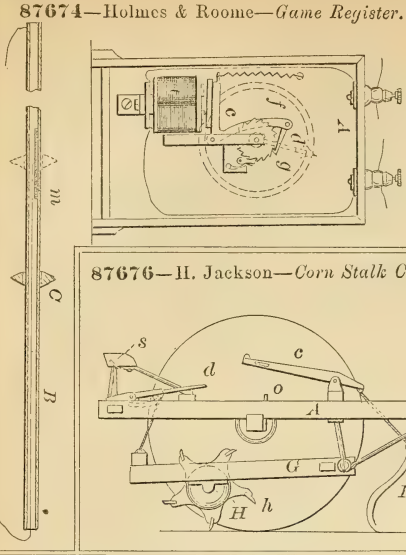
**87672**—Herzog & Roth—*Work in Wood.*

**87673**—Holdiman & Goodwin—*Water Wheel.*

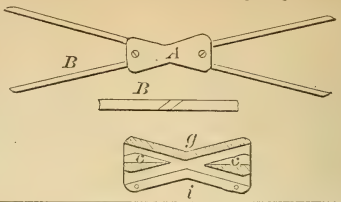




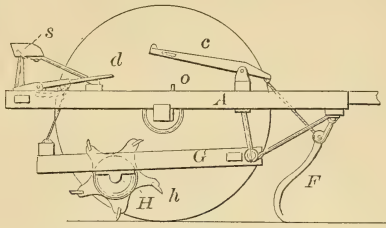
**87674**—Holmes & Roome—*Game Register.*



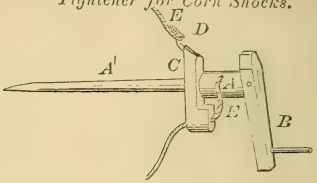

**87675**—C. H. Hudson—*Spring Seat.*



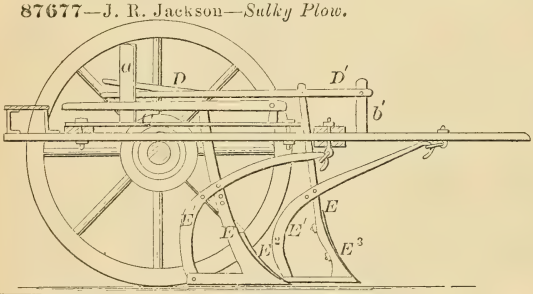

**87676**—H. Jackson—*Corn Stalk Cutter.*



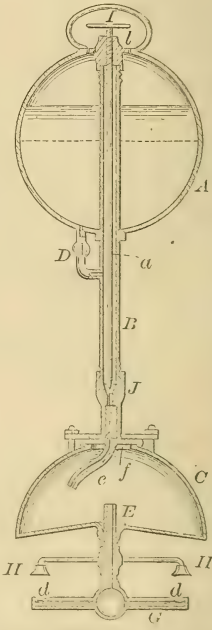

**87678**—J. C. Jay—*Band Tightener for Corn Shocks.*



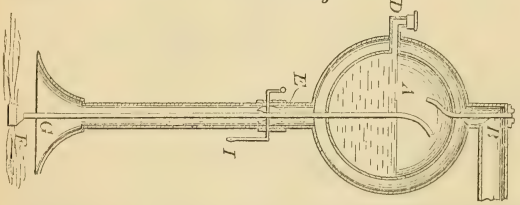

**87677**—J. R. Jackson—*Sulky Plow.*



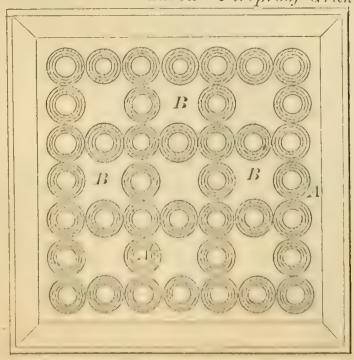

**87680**—J. Kidd—*Vapor Burner.*



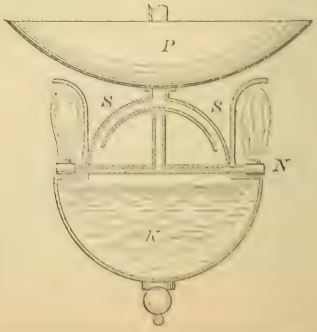

**87681**—J. Kidd—*For Carburetting Gas.*



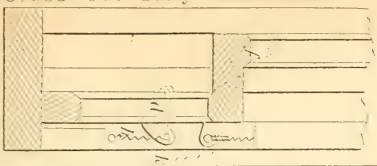

**87679**—G. H. Johnson—*Fireproof Granary.*



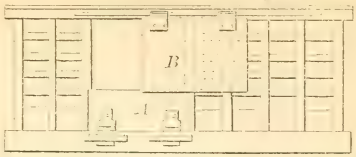

**87682**—J. Kidd—*For Carburetting Gas.*



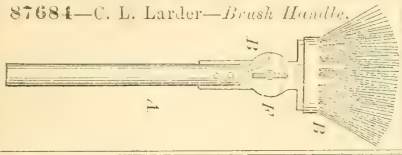
87683—D. P. Lacey—*Sash Holder.*



87685—T. R. Leighton—*Railway Car Door.*

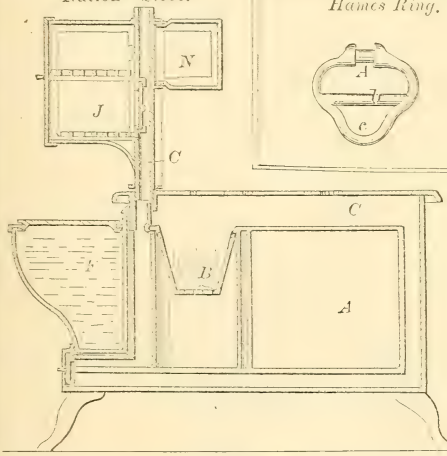


87684—C. L. Larder—*Brush Handle.*



87687—E. T. Ligon—*Railway Car Axle.*

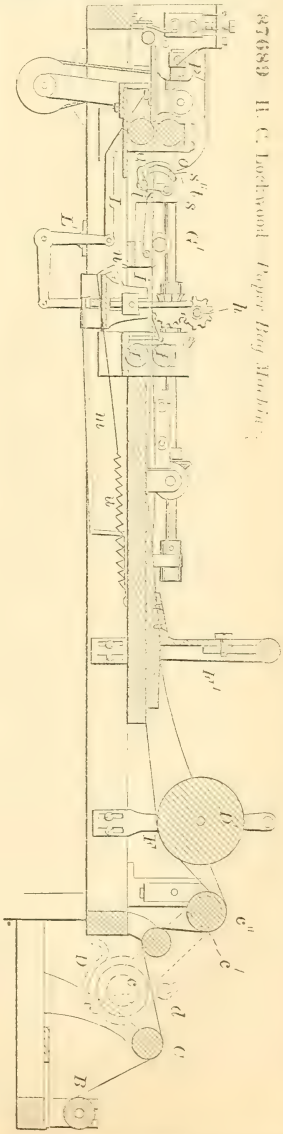
87688—Little, Clow & Nation—*Stove.*

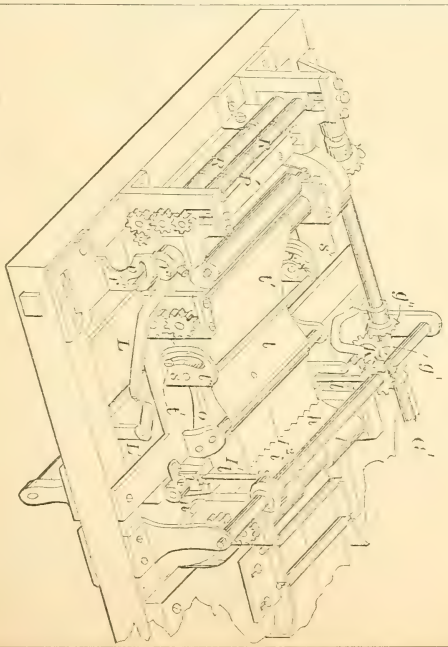


87686—J. Letchworth—*Hames Ring.*

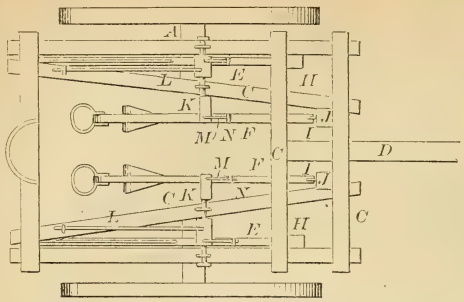


87689 H. C. Lockwood *Paper Bag Machine.*

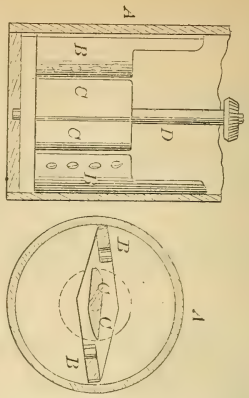




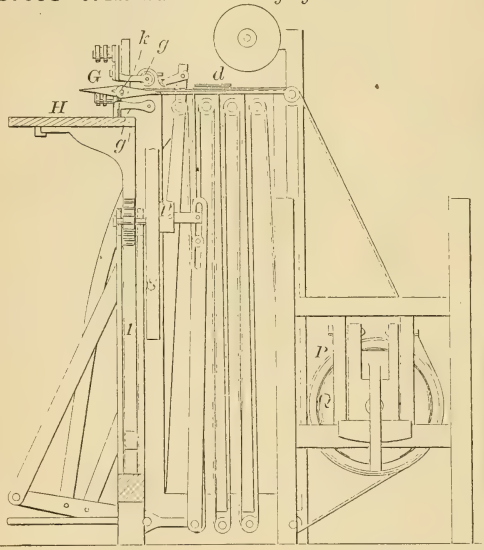
**87690**—W. Looker—*Cultivator Plow.*

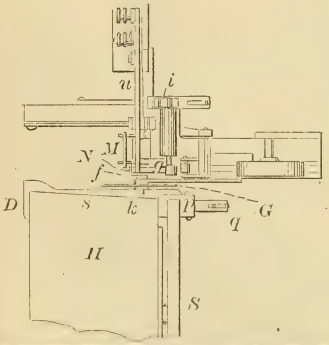



**87691**—J. L. Marsh—*Churn.*

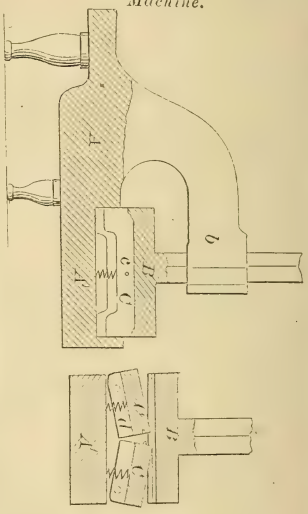



**87693**—J. McAdams—*For Paging Books.*

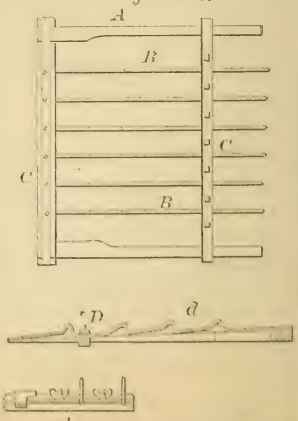


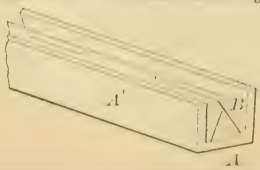

**87692**—Mays & Bliss—*Seaming Machine.*



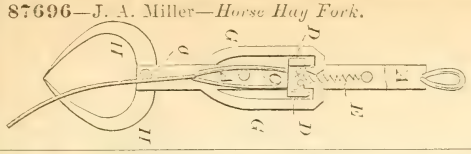

**87695**—T. H. Mead—*Printing Press Fly Frame.*



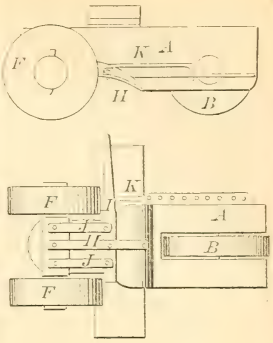

**87694**—T. M. C. Lutes—*Covering for Blind Ditches.*



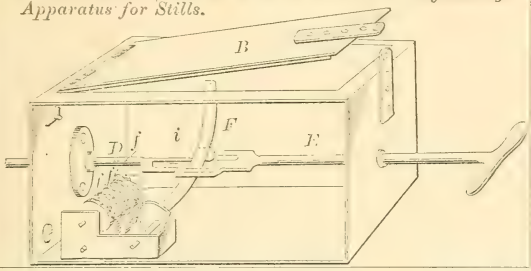
87696—J. A. Miller—*Horse Hay Fork.*



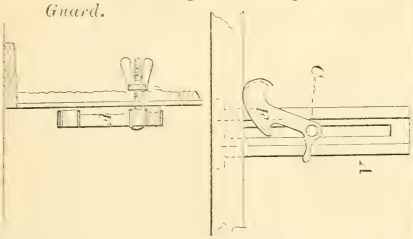
87697—J. S. Millikan—*Truck.*



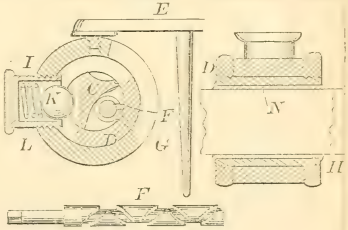
87698—Minor & M. W. & G. W. Nesmith—*Registering Apparatus for Stills.*



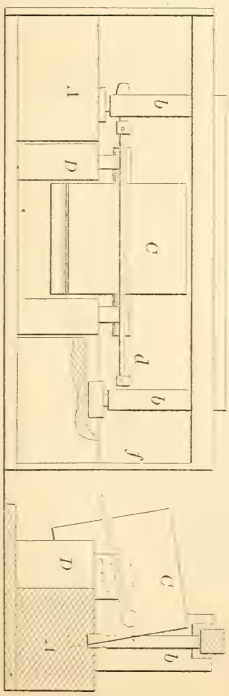
87700—A. W. Pagett—*Sawing Machine Guard.*



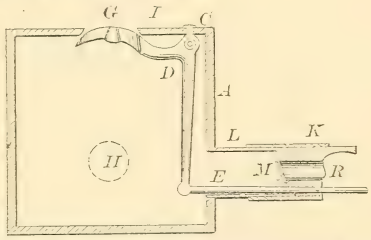
87699—Morse & Carter—*Harvester Rake.*



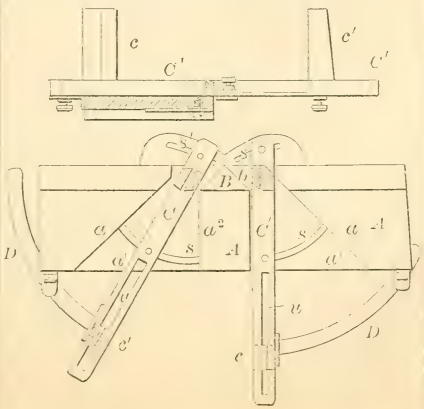
87701—C. H. G. Pease—*Marble Sawing Machine.*



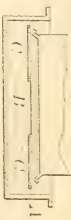
87702—J. J. Pierce—*Tuyere.*



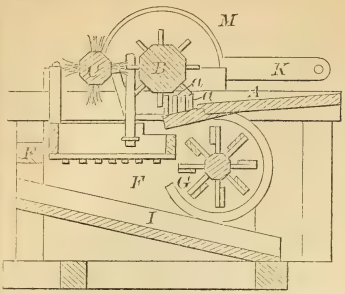
87703—J. Pons—*Mitre Box.*



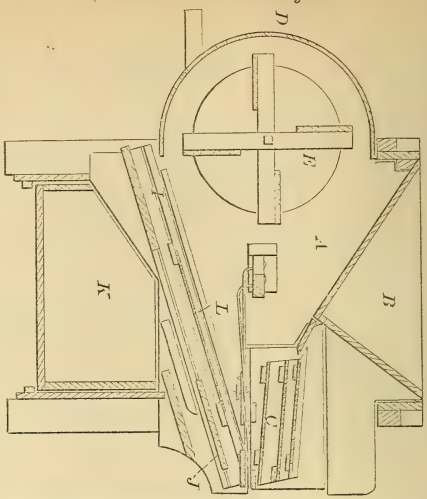
87704—Pratt & Scimed—*Soldering Machine.*



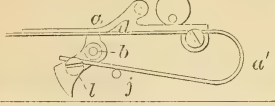
87705—A. Quinn—*Pea Picker.*



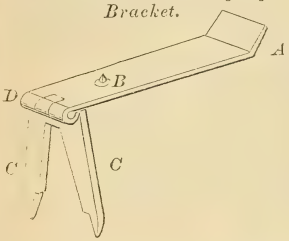

87706—B. F. Randell—*Fanning Mill.*



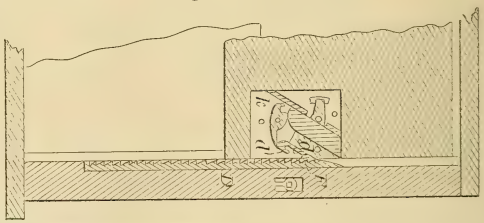

87707—G. P. Reed—*Chronometer Escapement.*



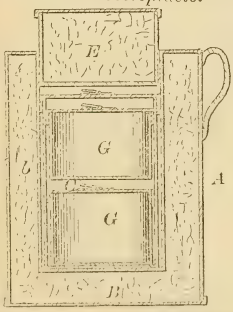

87709—A. Rollo—*Shingling Bracket.*



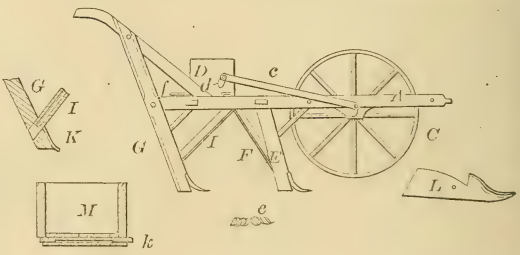

87708—A. C. Rodgers—*Sash Holder.*



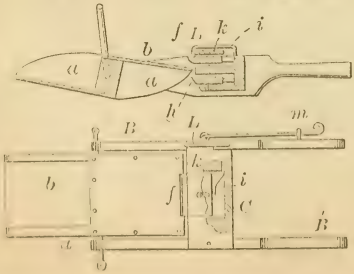
87710—E. A. G. Roulstone—*Ice Cream Receptacle.*



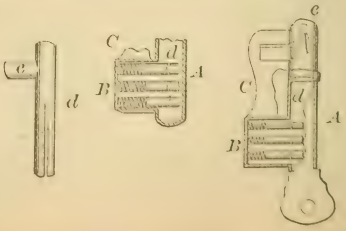

87712—Sater & Barns—*Grain Drill and Corn Dropper.*



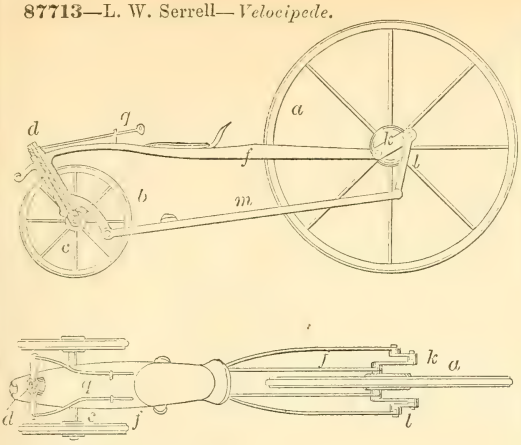

87711—W. W. Rumrill—*Road Scraper.*



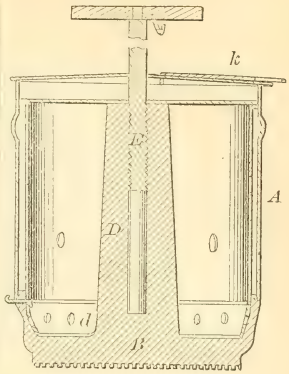

87714—E. E. Shepardson—*Key Hole Guard.*



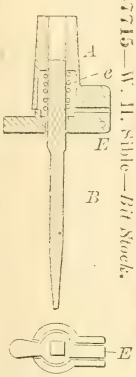
**87713**—L. W. Serrell—*Velocipede.*



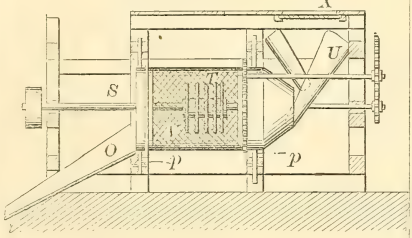

**87720**—L. Stark—*Branding Iron.*



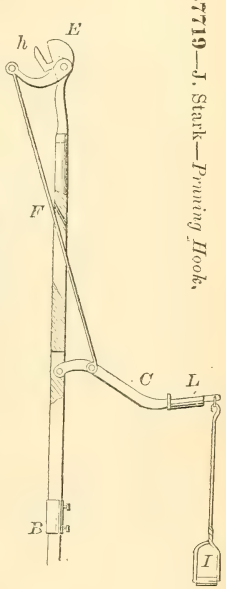

**87715**—W. H. Sible—*Bit Stock.*




**87716**—F. H. Smith—*Clay Pulverizer and Stone Separator.*

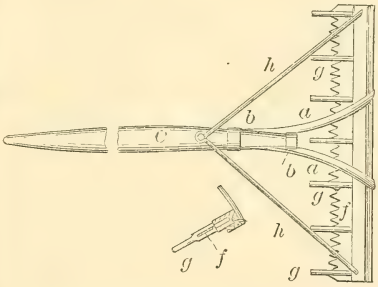



**87719**—J. Stark—*Pruning Hook.*

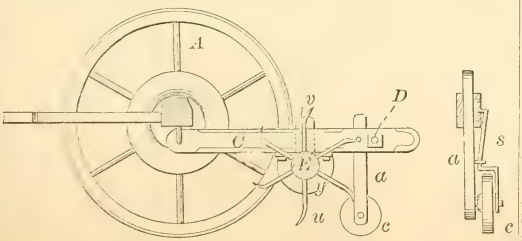



**87717**—J. B. Smith—*Screw Bolt and Lock Nut.*

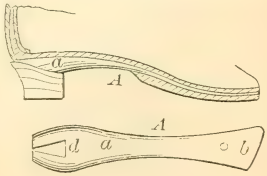
**87718**—S. Skinner—*Pea Rake.*



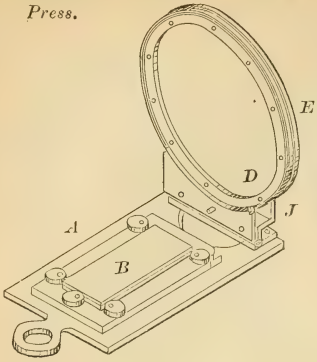

**87721**—A. J. Stephens—*Cultivator.*



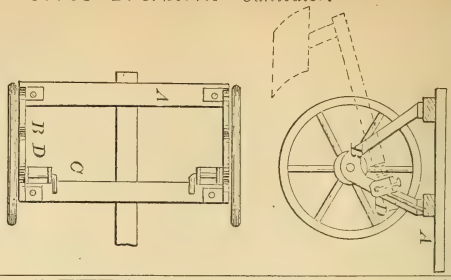

**87722**—H. P. Stewart—*Shank.*



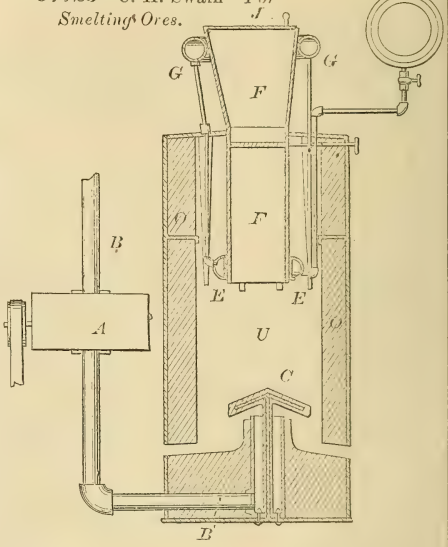
87723—D. U. Stoner—*Printing Press.*



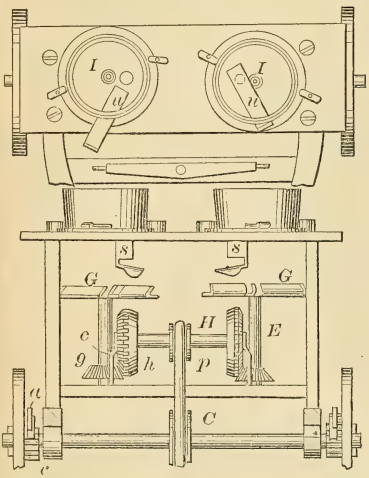

87724—D. C. Stover—*Cultivator.*



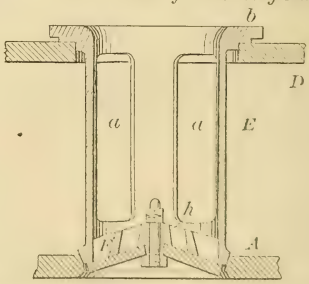

87725—C. H. Swain—*For Smelting Ores.*



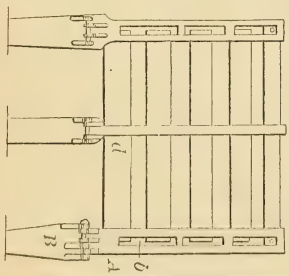

87726—H. R. Swank—*Seed Sower.*



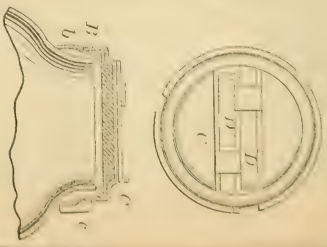

87728—L. Taws—*Valve for Blowing Engines.*



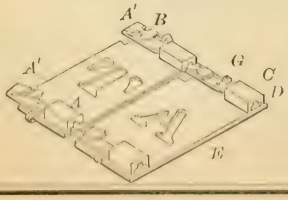

87729—J. B. Tedrow—*Fence.*



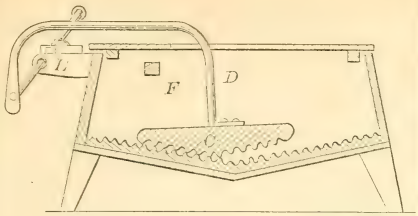

87730—N. Thompson—*Preserve Jar.*



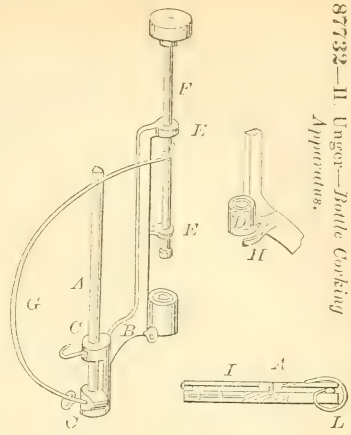

87727—J. L. & H. L. Tarbox—*Stencil Plate.*



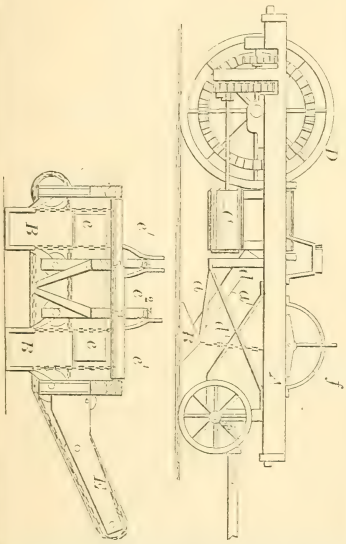
**87731**—H. B. Tibbits—*Washing Machine.*



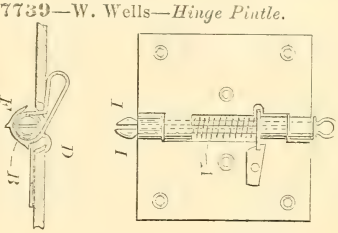

**87732**—H. Unger—*Bottle Corking Apparatus.*



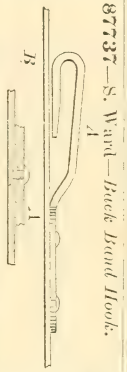

**87736**—A. Ward—*For Scraping and Loading Earth.*



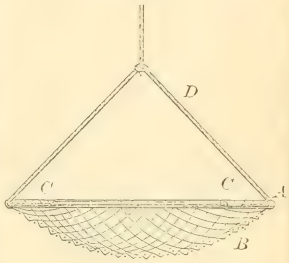

**87739**—W. Wells—*Hinge Pintle.*



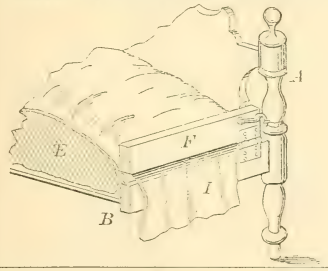

**87737**—S. Ward—*Back Band Hook.*




**87740**—F. A. Werdmüller—*Fishing Net.*

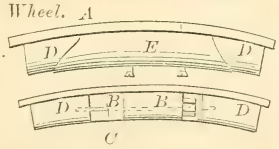



**87742**—H. K. Whitner—*Bedstead.*

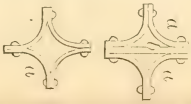



**87735**—J. R. Van Vechten—*Cartridge.*

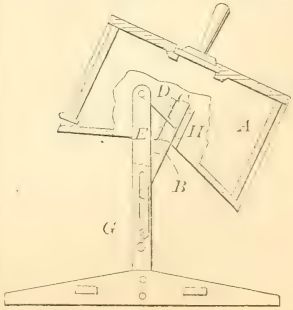
**87738**—Welch & Ammeden—*Wheel.*



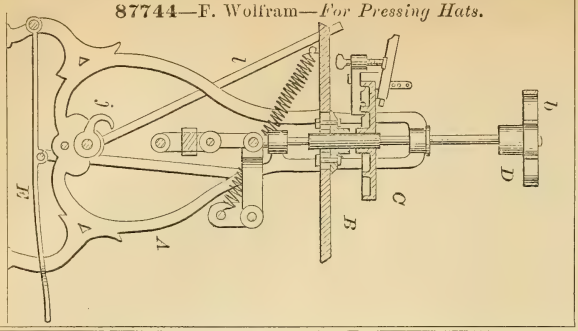

**87741**—T. B. White—*Bridge.*



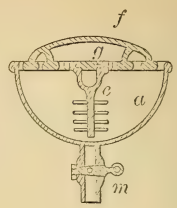

**87743**—M. Witmer—*Churn.*



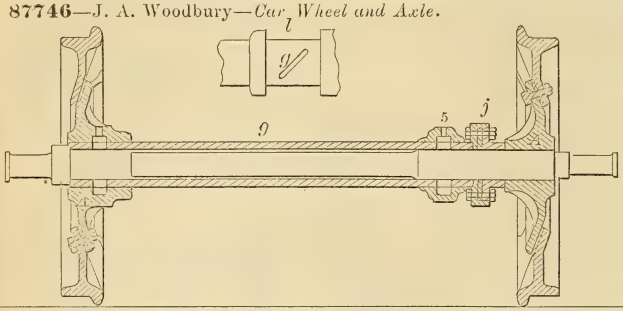
**87744**—F. Wolfram—*For Pressing Hats.*



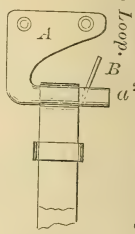
**87745**—H. J. Wolters—*Funnel.*



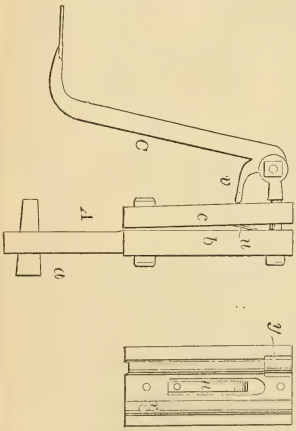
**87746**—J. A. Woodbury—*Car Wheel and Axle.*



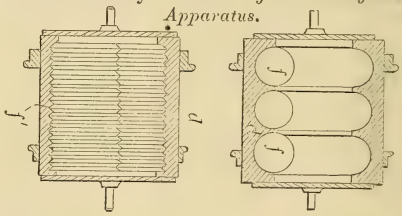
**87749**—A. B. Zollner—*Strap Loop, Stirrup*



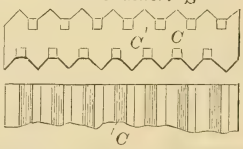
**87747**—J. M. Woods—*For Heading Bolts.*



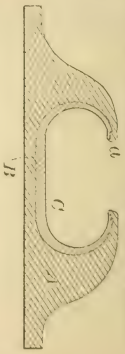
**87748**—L. Wray—*Triturating and Amalgamating Apparatus.*



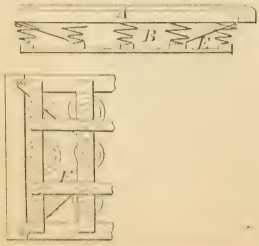
**87750**—Agnew & Wright—*Ore Crusher.*



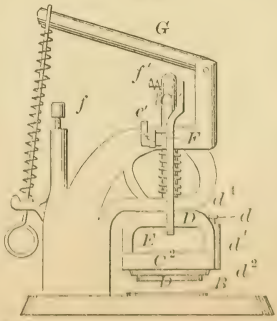
**87751**—C. G. Batchelder—*Chock for Vessels.*



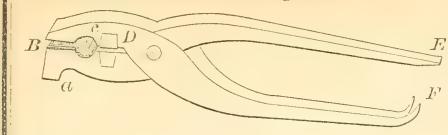
**87752**—J. J. Baxter—*Bed Bottom.*



**87753**—J. H. Bean—*Heel Cutter.*

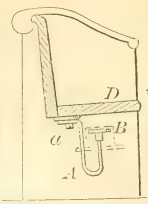


**87754**—E. S. Bennett—*Implement.*

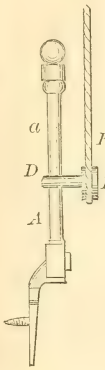



**87755**—J. W. Bishop—*For Harness.*

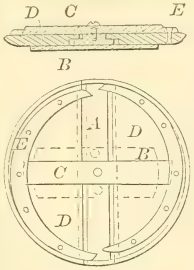
**87756**—J. M. Gain—*Hat Holder for Seats.*



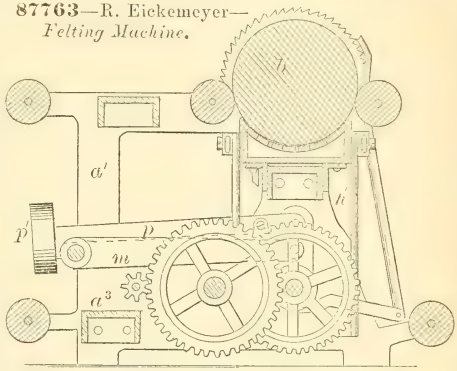

**87757**—H. N. Chapman—*Curtain Fixture.*



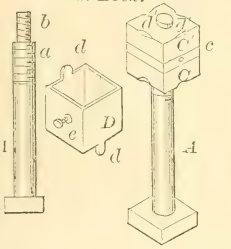

**87760**—J. A. Cook—*Barrel Head.*



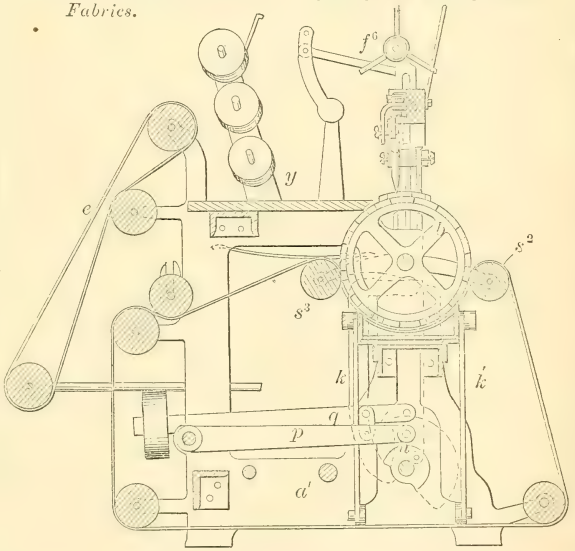

**87763**—R. Eickemeyer—*Felting Machine.*



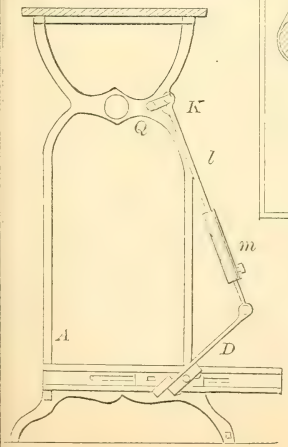

**87761**—J. R. Cribbs—*Nut Lock.*



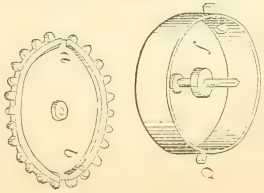

**87764**—R. Eickemeyer—*For Preparing and Felting Tufted Fabrics.*



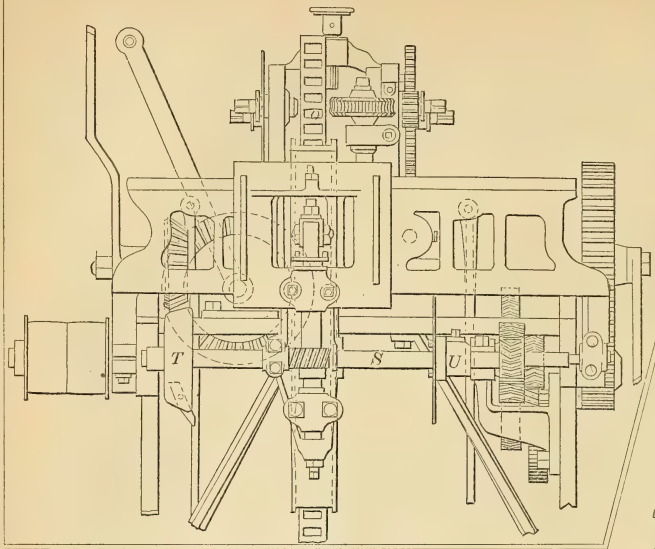

**87762**—H. G. Davis—*Sewing Machine Treadle.*



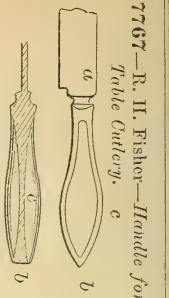

**87765**—S. F. Estell—*Watch.*



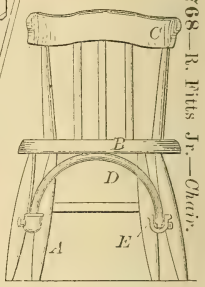
87766—C. Evotte—*Gear Cutter.*



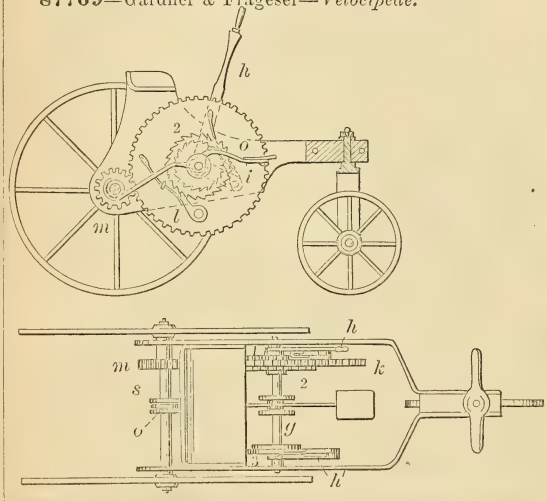

87767—R. H. Fisher—*Handle for Table Cutlery.*



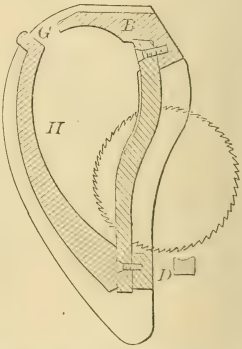

87768—R. Fitts Jr.—*Chair.*



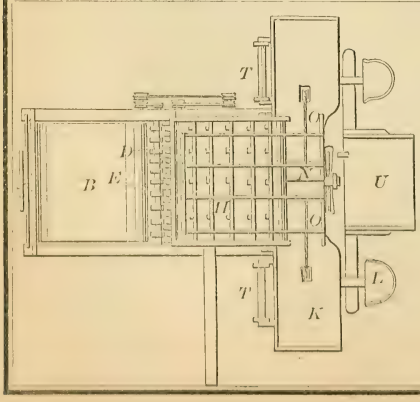

87769—Gardner & Frageser—*Velocipede.*

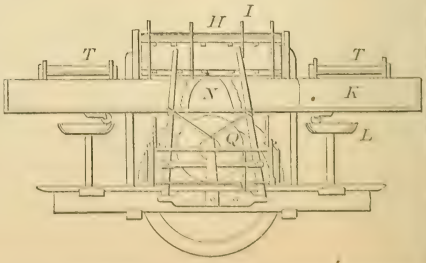



87771—S. Z. Hall—*Cotton Gin.*

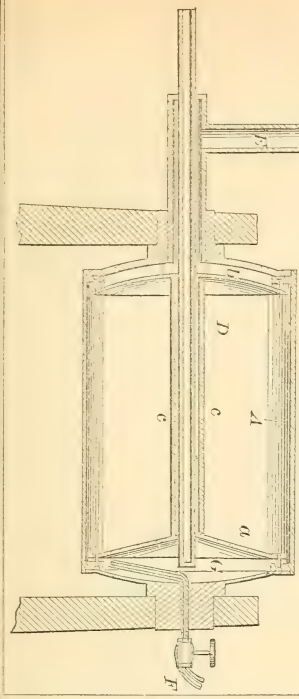



87770—C. P. Gronberg—*Harvester.*

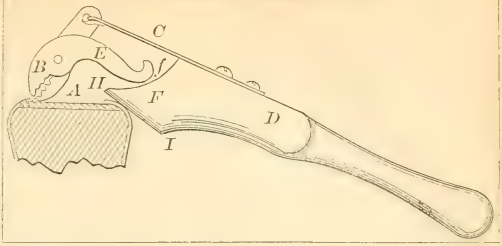


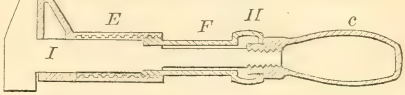
87772—J. G. Hamilton—*Steam Generator.*



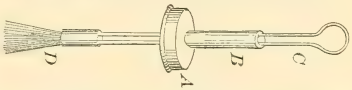

87773—F. Henderson—*Shank Laster.*



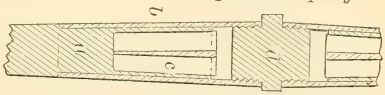

87774—H. W. Hewet—*Wrench.*



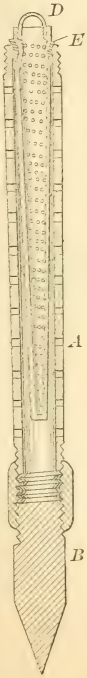

87776—M. W. House—*Mucilage Brush.*



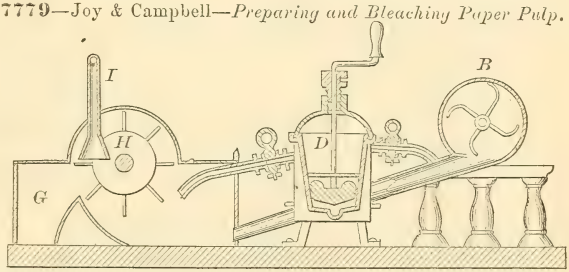

87778—H. T. Hunt—*Pump Rod Coupling.*



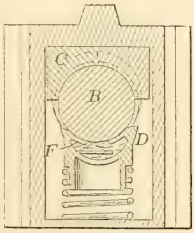

87775—L. L. Hines—*Well Tube.*



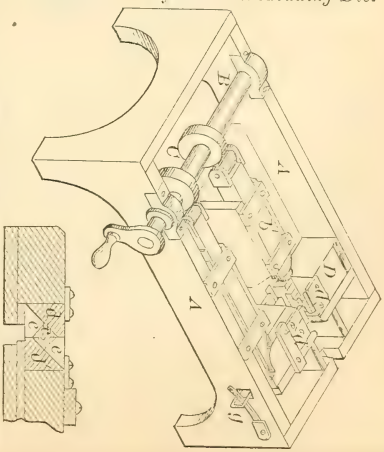

87779—Joy & Campbell—*Preparing and Bleaching Paper Pulp.*



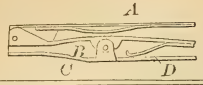

87777—M. C. Hubbard—*Lubricator.*



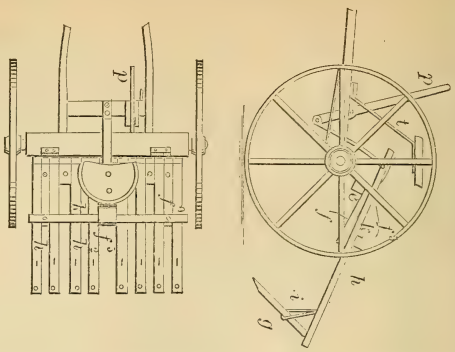

87780—J. Kaylor—*Bolt Heading Die.*



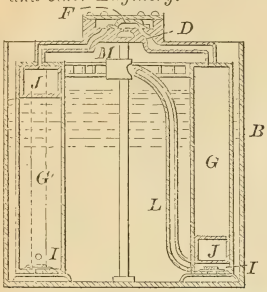
87781—C. H. Kimball—*Ticket Holder.*



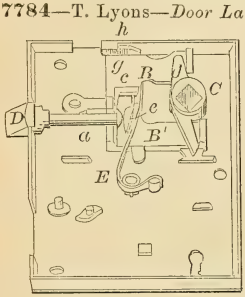

87782—J. La Croix—*Horse Rake.*



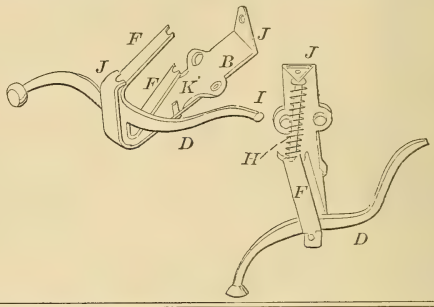
87783—P. Lear—*For Steam and other Enginery.*




87784—T. Lyons—*Door Latch.*

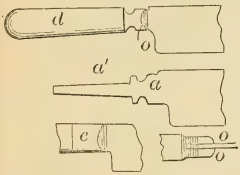



87785—E. Manley—*Door Holder.*

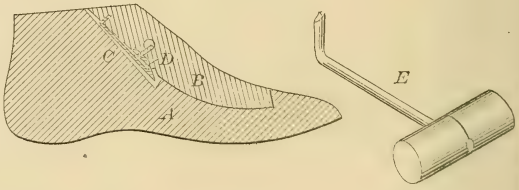



87786—S. Mason—*Table Cutlery.*

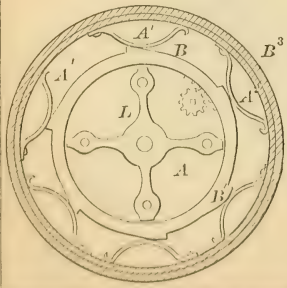
87787—Mason & Binns—*Table Cutlery.*



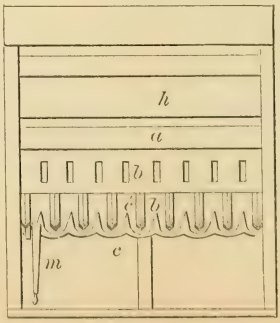

87788—A. W. Merritt—*Last.*

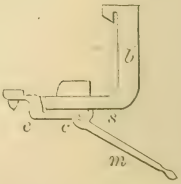



87789—T. R. Morgan—*Piston Packing.*

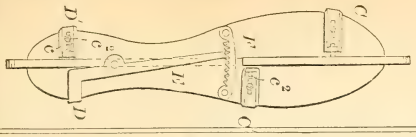



87790—J. Old—*Grate.*

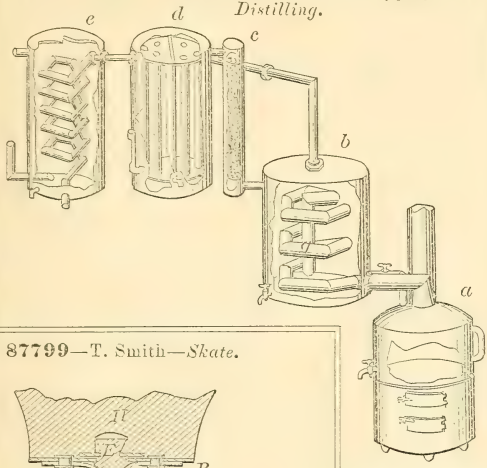


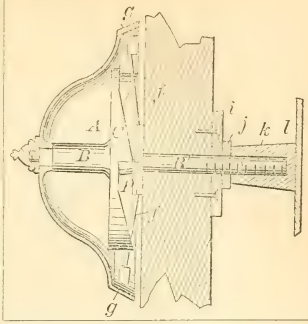
**87791**—J. W. Post—*Skate.*



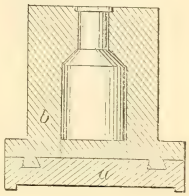
**87792**—E. F. & T. B. Prentiss—*For Rectifying and Distilling.*



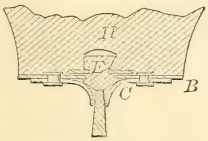
**87794**—C. W. Saladee—*Door Bell.*



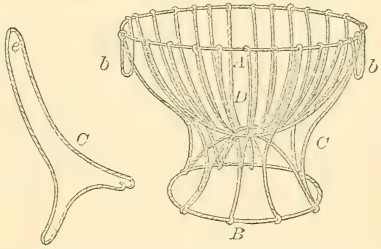
**87795**—J. C. Schaffer—*Glass Mould.*



**87799**—T. Smith—*Skate.*



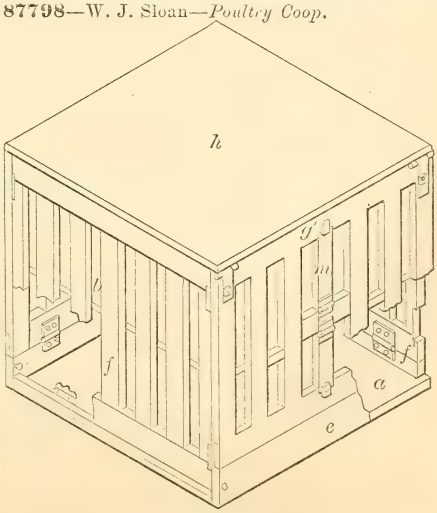
**87797**—Sherwood & Dudley—*Fruit Basket.*



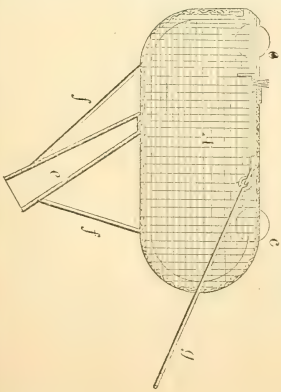
**87796**—H. L. Shailer—*Auger Bit.*

**87800**—J. Stephenson—*Signal Light for Street Cars.*

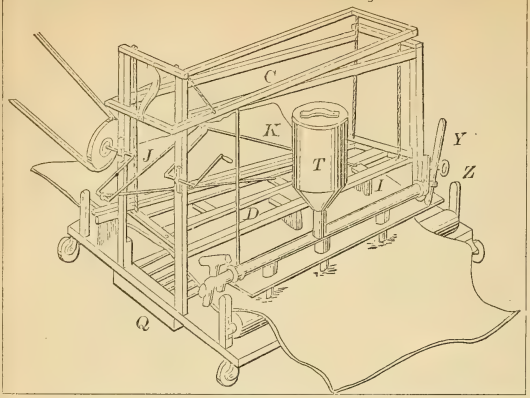
**87798**—W. J. Sloan—*Poultry Coop.*



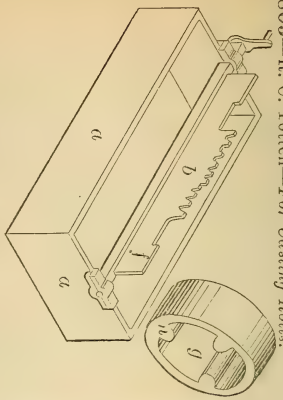
**87801**—J. E. Stone—*Fly Trap.*



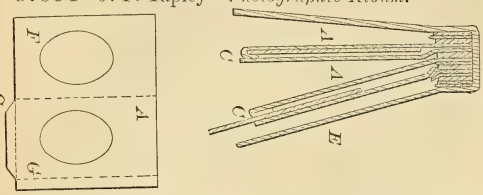
**87803**—C. W. Strout—*For Varnishing Oil Cloths.*



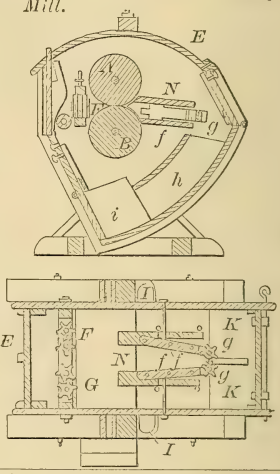

**87805**—R. C. Totten—*For Casting Rolls.*



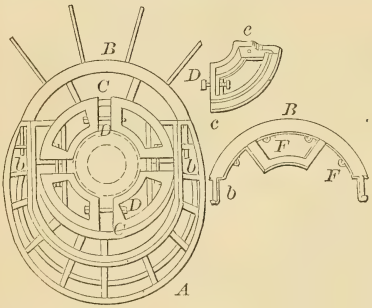

**87804**—J. F. Tapley—*Photographic Album.*



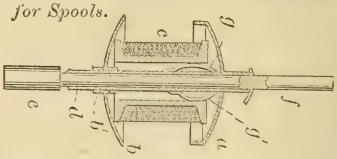

**87806**—J. H. Waite—*Fulling Mill.*



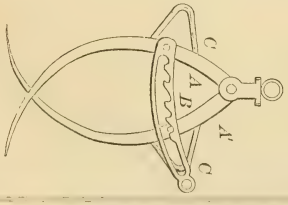

**87808**—Watson & Pugh—*Stove Pipe Shelf.*



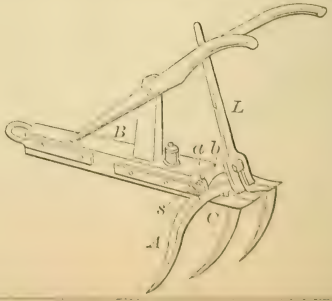

**87810**—G. Wheelock—*Thread Guard for Spools.*



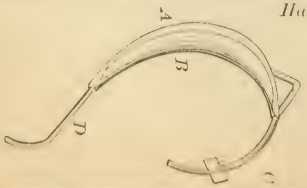

**87807**—C. E. Warner—*Horse Hay Fork.*



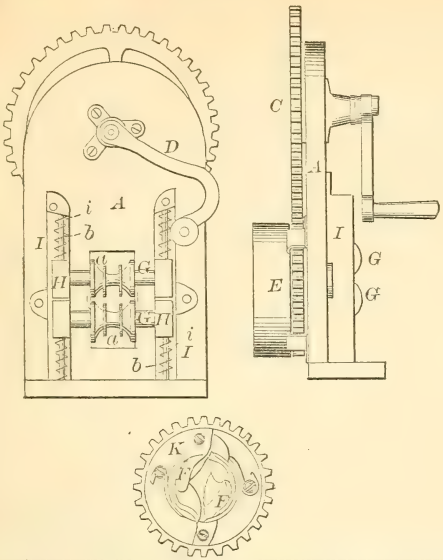

**87812**—D. Wingenroth—*Manure Drag.*



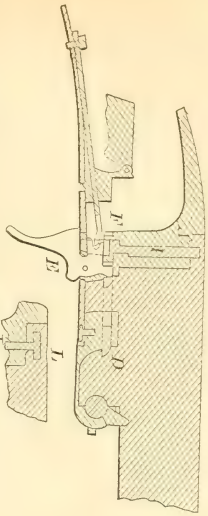

**87809**—W. Westlake—*Coffee and Tea Pot Handle.*



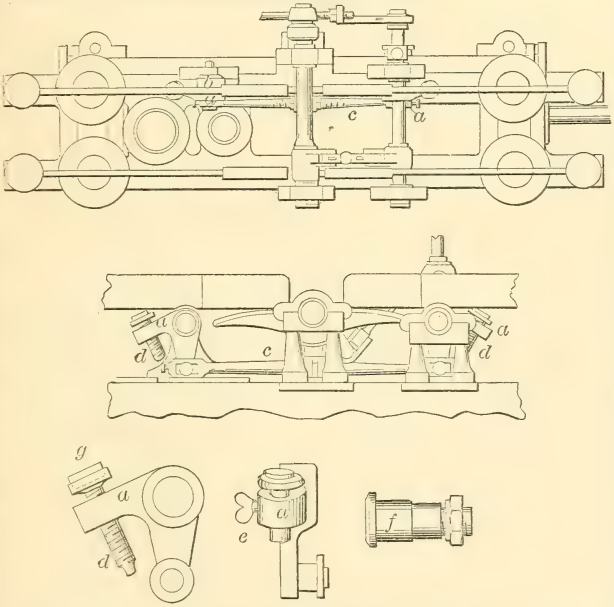
**87811**—Whiterow & Detrick—*Corn Sheller.*



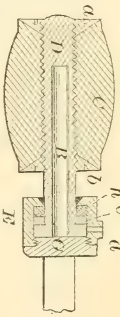

**87814**—G. T. Abbey—*Fire Arm.*



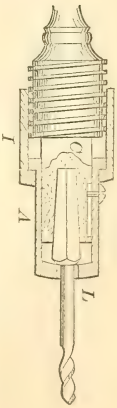

**87813**—T. Wosser—*Steam Engine Valve Gear.*



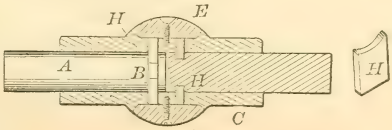

**87815**—L. Adams—*For Attaching Carriage Hubs to Axles.*



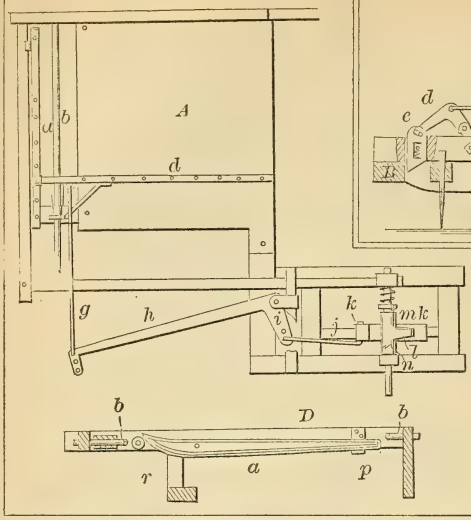

**87816**—A. S. Allen—*Bit Stock.*



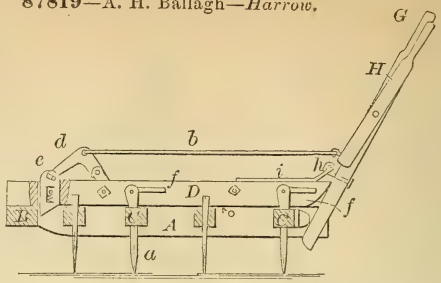

**87818**—J. Armstrong—*Car Axle.*



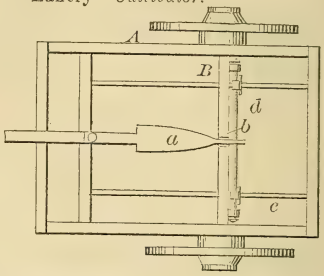
87817—E. Ames—*Harvester Rake.*



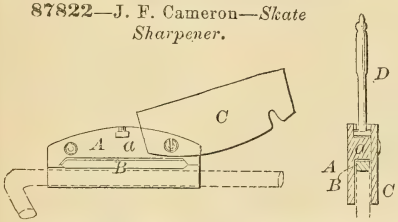

87819—A. H. Ballagh—*Harrow.*



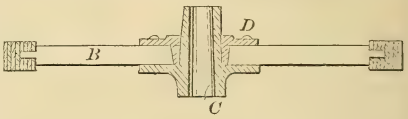

87824—W. F. & G. Coulter & Lanery—*Cultivator.*



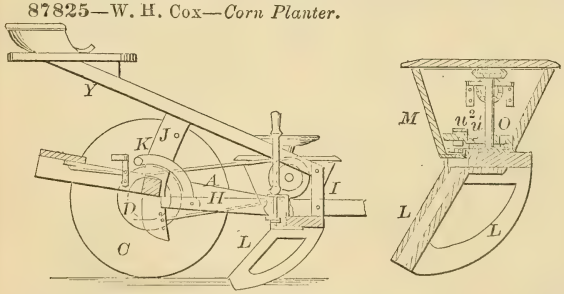

87822—J. F. Cameron—*Skate Sharpener.*



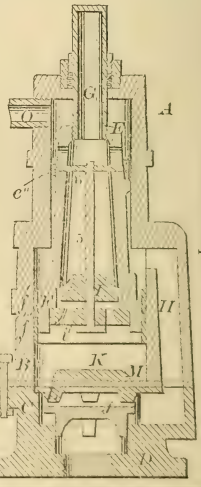

87823—J. Coney—*Carriage Wheel.*



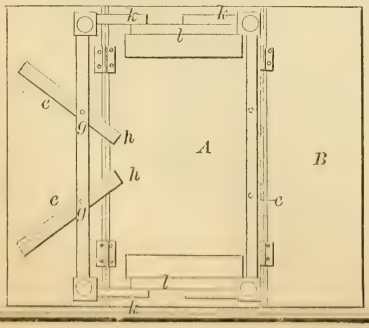

87825—W. H. Cox—*Corn Planter.*

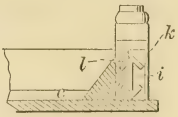



87828—L. H. Davis—*Pump.*

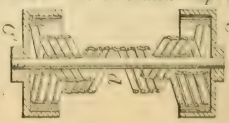



87829—J. Dourson—*Table.*

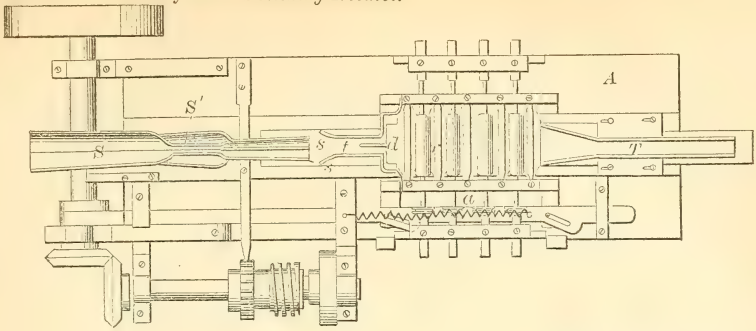


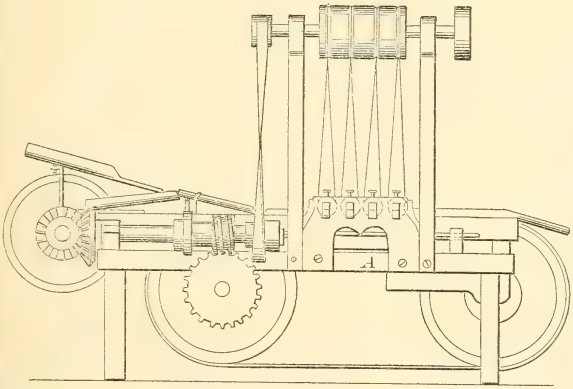




87827—M. R. Dand—*Spring.*

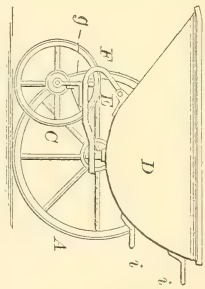


**87826**—C. O. Crosby—*For Polishing Needles.*

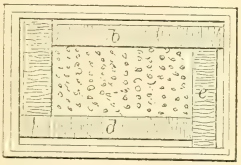


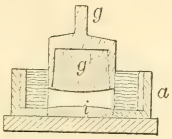



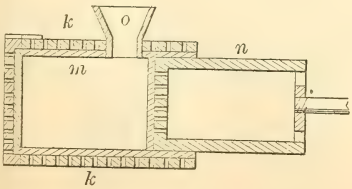

**87831**—W. Farmer—*Cart.*



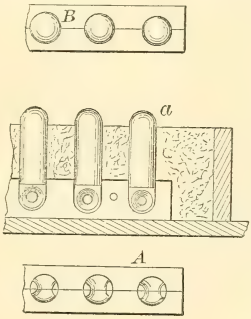

**87830**—T. & W. A. Ellis—*Brick Mould.*



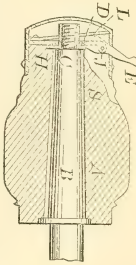



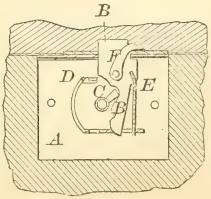

**87832**—Ferguson & Anderson—*For Moulding Sash Weights.*



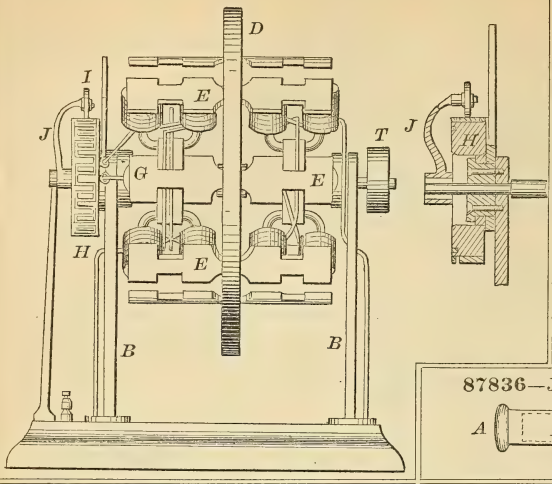

**87833**—J. B. Fink—*Spindle Wrench.*



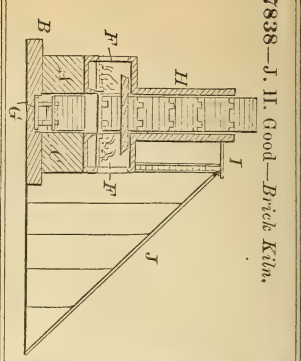

**87834**—E. F. French—*Piano Lock.*



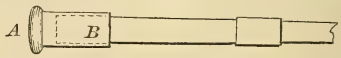
87835—C. J. B. Gaume—*Electro-Magnetic Engine.*



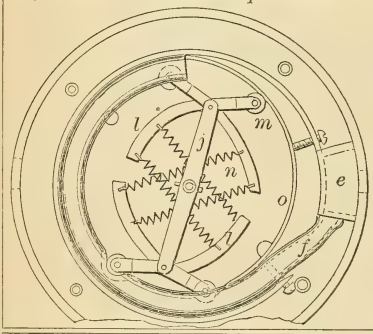

87838—J. H. Good—*Brick Kiln.*



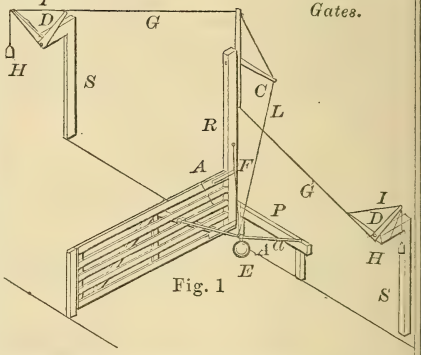

87836—J. R. Gillett—*Whip Mounting.*



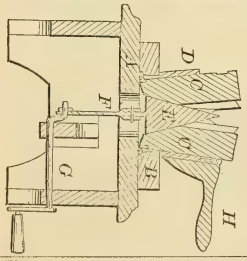

87837—O. Gilmore—*Liquid Meter.*



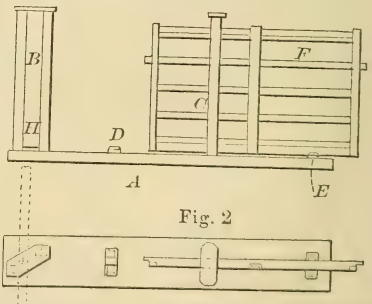

87839—D. G. Goodall—*For Operating Gates.*



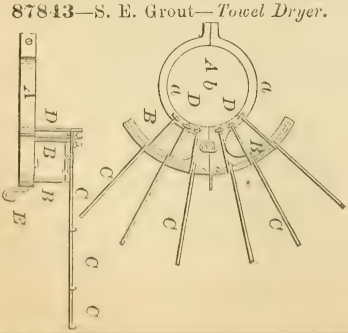

87841—S. S. Gray—*For Moulding Paper Collars.*



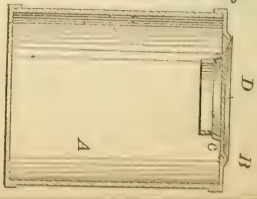

87842—W. H. Griscom—*Gate.*



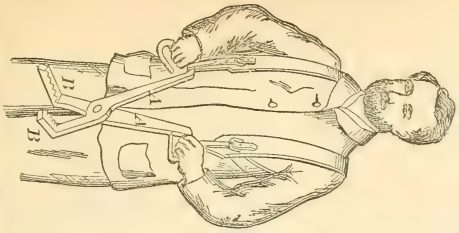

87843—S. E. Grout—*Towel Dryer.*



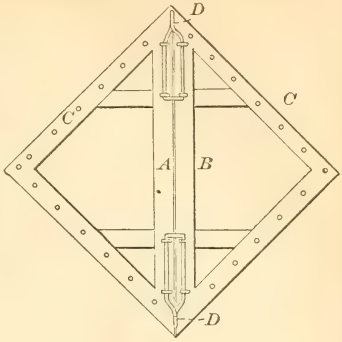

87840—W. J. Gordon—*Air Tight Can.*



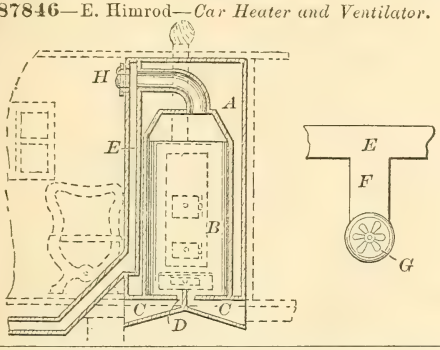
87844—O. B. Hale—*For Pulling Hop Poles.*



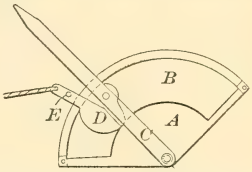

87845—G. Heffner—*Harrow.*



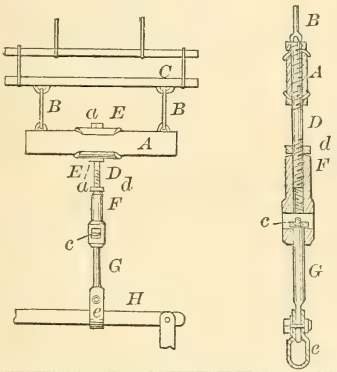

87846—E. Himrod—*Car Heater and Ventilator.*



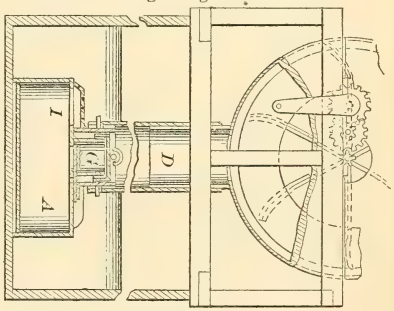

87847—J. Hoke—*Wagon Brake.*



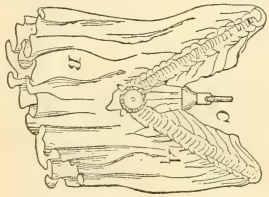

87848—J. T Holden—*Loom.*



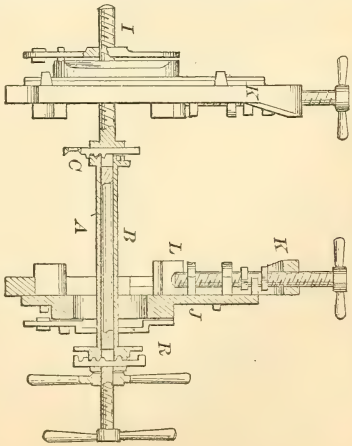

87851—I. Houghtling—*Milk Cooler.*



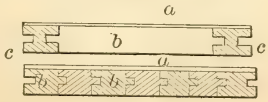

87849—J. B. Holmes—*Mosquito Net.*



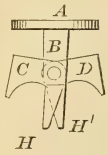

87852—F. Jonas—*Hub Boring Machine.*



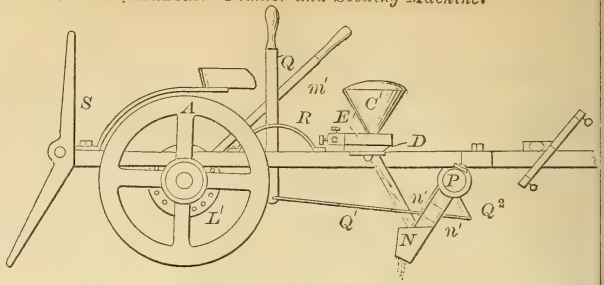

87853—J. G. Kappes—*Mosaic Floor.*

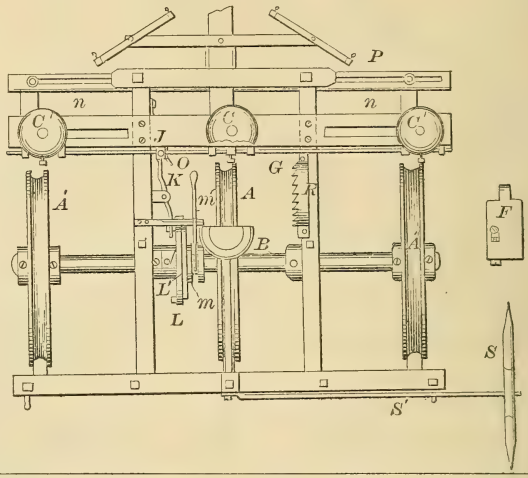


87854—M. R. Kenyon—*Button.*

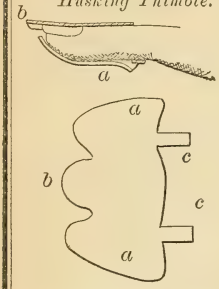



87855—S. S. Kimball—*Planter and Seeding Machine.*

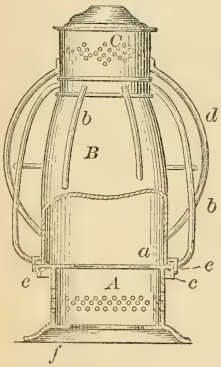


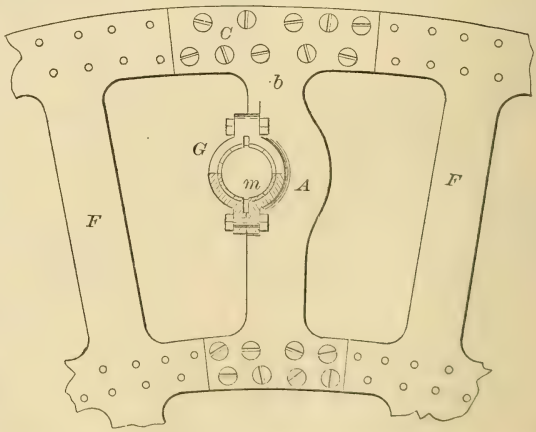

87856—H. J. Kintz—*Husking Thimble.*



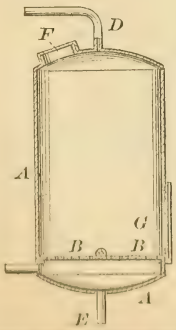

87857—T. Langston—*Lantern.*




87860—W. R. Manley—*Paddle Wheel.*

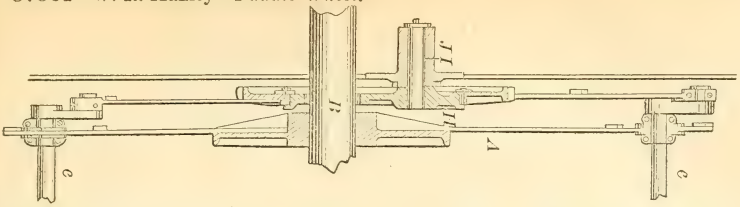



87858—H. S. Lewis—*For Extracting Saccharine Juices from Canes.*

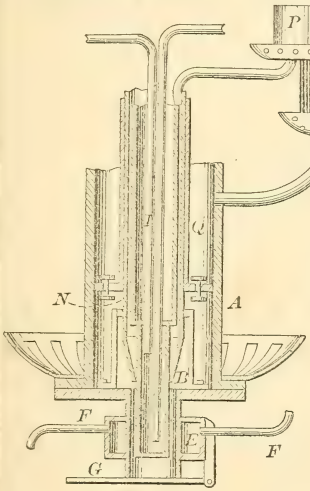



87859—C. Lucas—*Sail Cringle.*

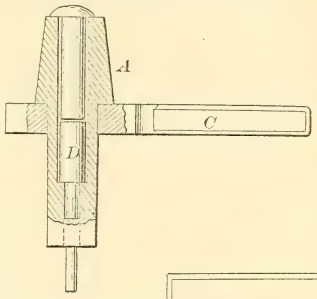
87861—W. R. Manley—*Paddle Wheel.*



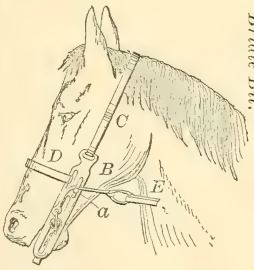

87862—J. McCloskey—*For Making Tubing.*



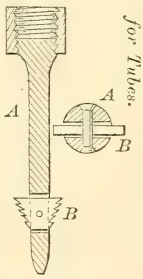

87863—J. Miller—*Rivet Tool.*



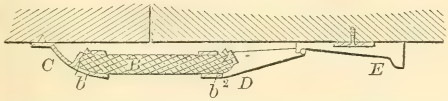

87864—J. H. Minnich—*Bridle Bit.*



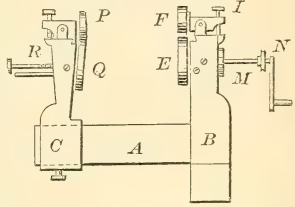

87865—Mix & Wilder—*Grapple for Tubes.*



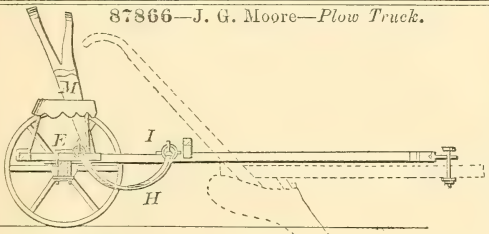

87867—E. L. Morse—*Door Spring.*

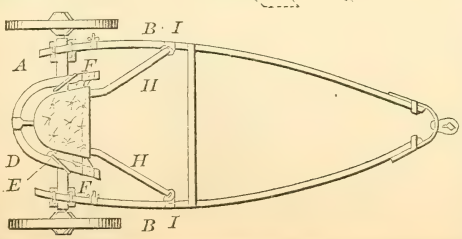



87868—C. E. Murray—*Watchmakers' Tool.*

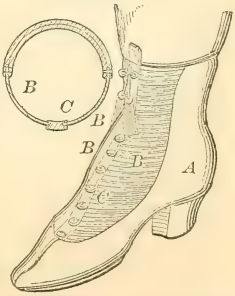



87866—J. G. Moore—*Plow Truck.*

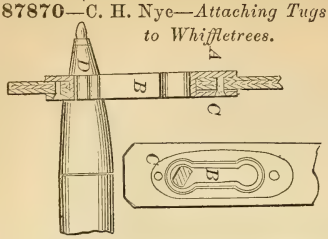


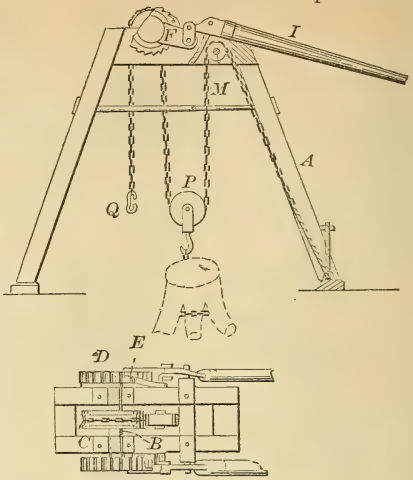

87869—E. Mougaret—*Gaiter Boot.*



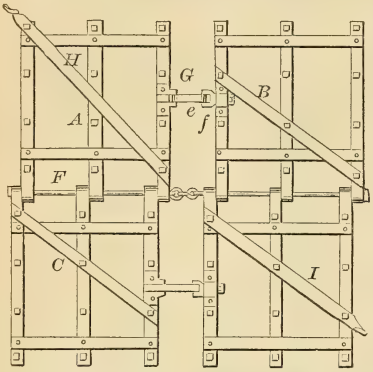
87870—C. H. Nye—*Attaching Tugs to Whiffletrees.*



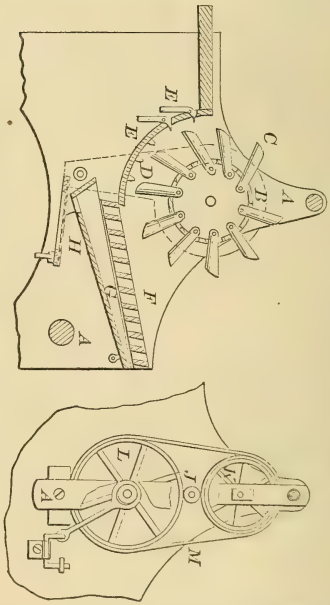

87871—B. & M. L. Oliver—*Stump Extractor.*



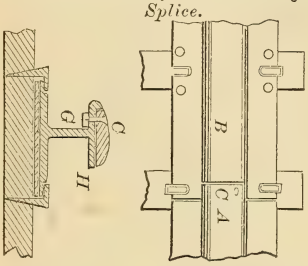

87872—Pense & Lykke—*Harrow.*



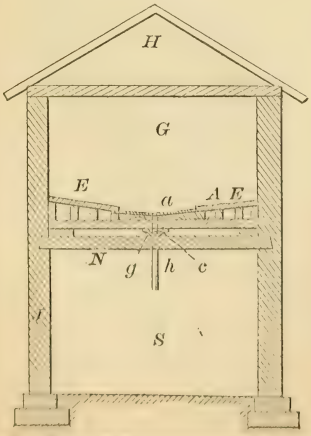

87874—Rhoades & Hamlin—*Threshing Machine.*



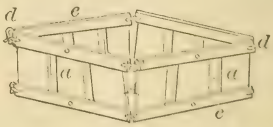

87873—P. Prettyman—*Railway Rail Splice.*




87878—R. Schmid—*Cellar for Preserving Beer.*

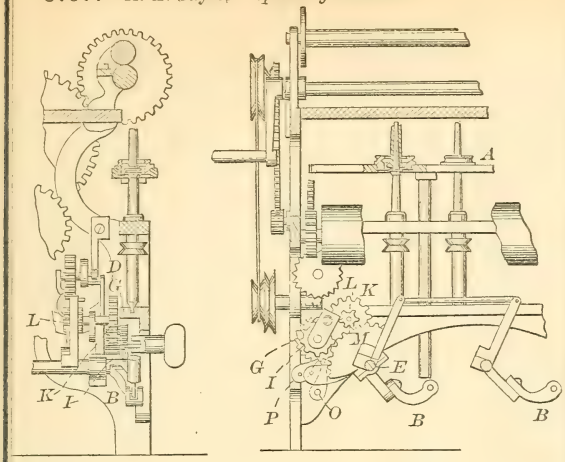



87875—Robinson & Shepard—*Fruit Box.*

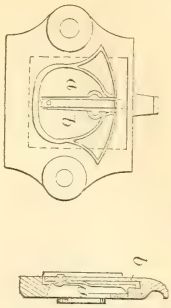



87876—D. R. Russell—*Fire Tongs.*

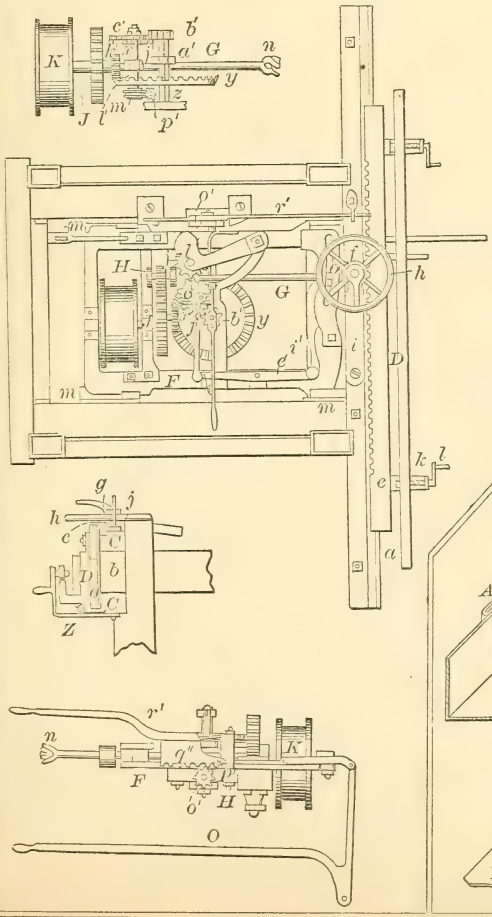
87877—A. L. Sayles—*Spinning Machine.*



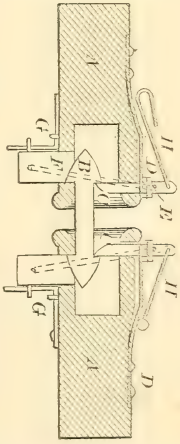

87880—J. F. Sharp—*Oil Box for Car Axles.*



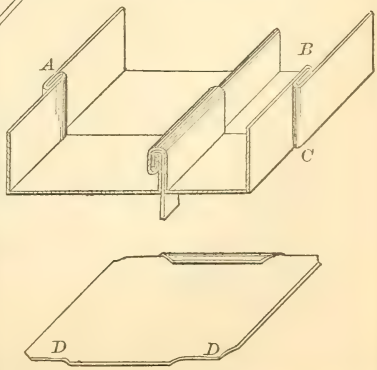

87879—H. Selick—*Mortising Machine.*



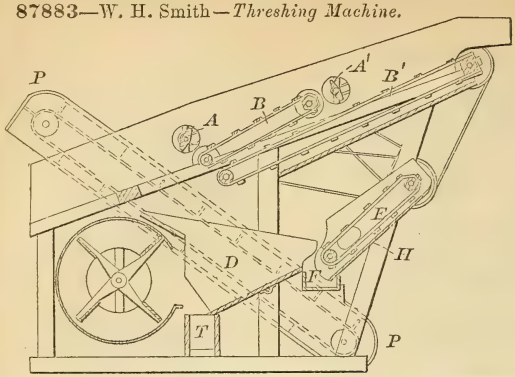

87882—Smith & Hinchman—*Car Coupling.*



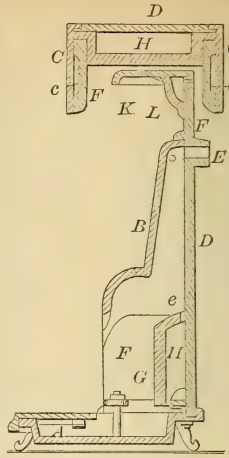

87881—J. H. Shimmons—*Sheet Metal Roofing.*



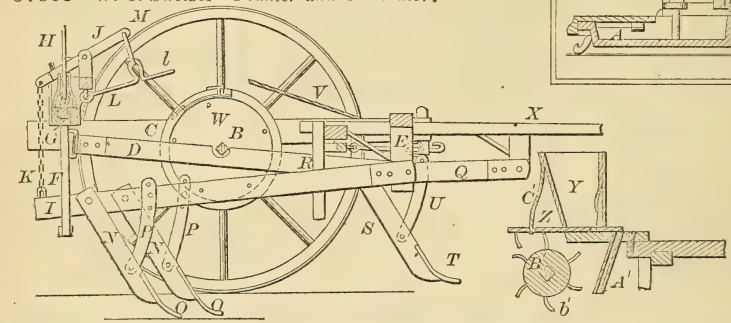
87883—W. H. Smith—*Threshing Machine.*



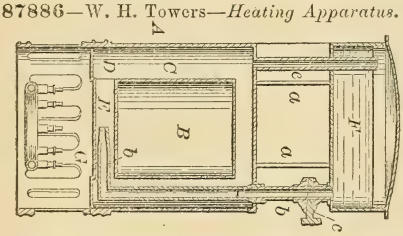

87884—A. J. Sprague—*Fire Place.*



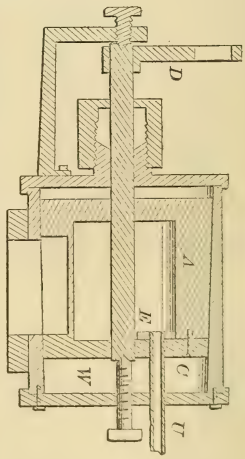

87885—W. C. Switzer—*Planter and Cultivator.*



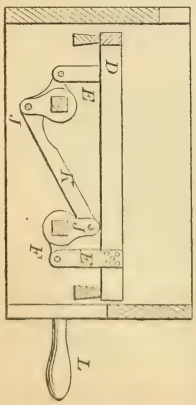

87886—W. H. Towers—*Heating Apparatus.*



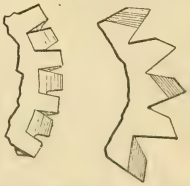

87888—A. Trew—*Oscillating Valve.*



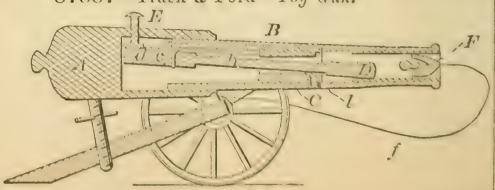

87889—J. G. Trotter—*For Making Iron and Steel*



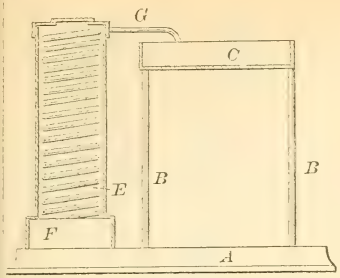

87891—Weible & Robinson—*Saw.*



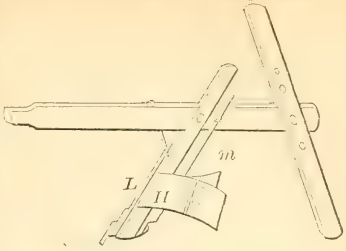
87887—Trask & Ford—*Toy Gun.*



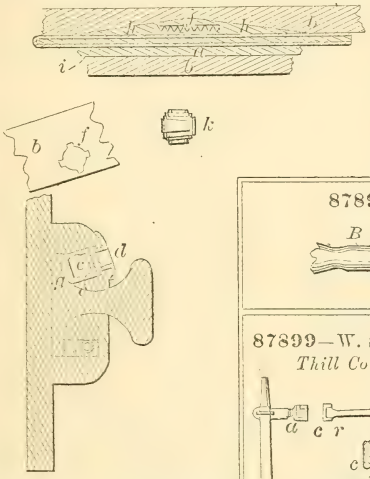
87890—A. Van Horn—*Oil Evaporator.*



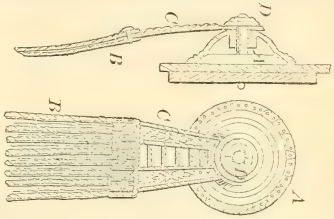

87892—W. West—*Ditching Plow.*




87893—W. Wickersham—*Railroad Chair.*

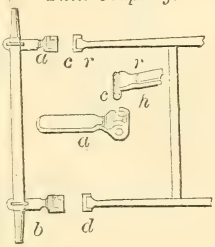



87896—L. C. Wilson—*Harness Rosette.*

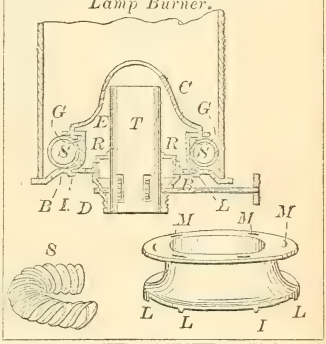



87897—J. D. Wyman—*For Soldering Irons.*

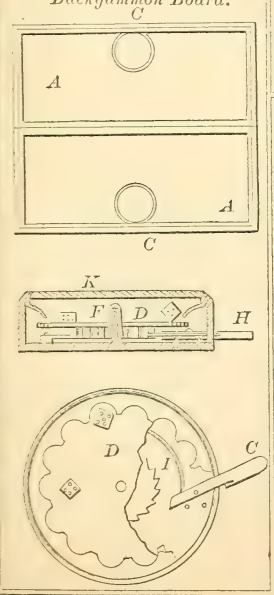
87899—W. S. Appleget—*Thill Coupling.*



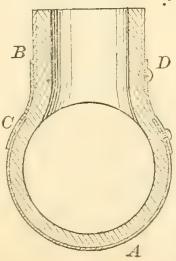

87898—J. B. Alexander—*Lamp Burner.*



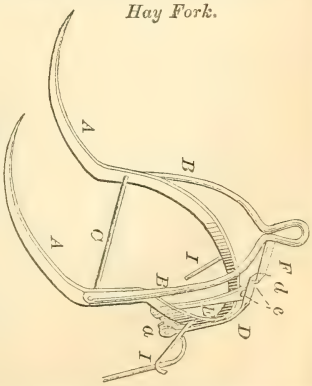

87895—N. B. Williams—*Backgammon Board.*



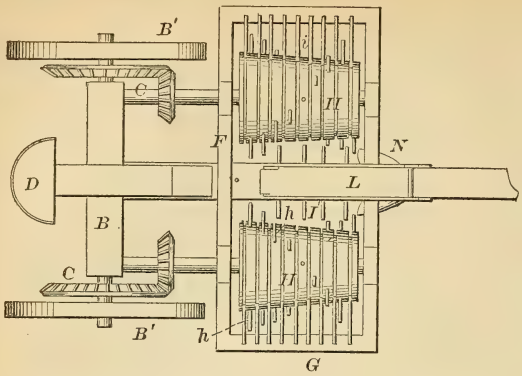

87900—P. Ball—*Branch Joint for Wrought Iron Water Pipes.*



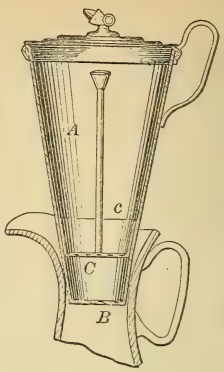

87902—W. H. Berdan—*Horse—Hay Fork.*



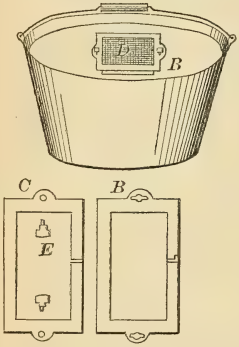
**87901**—W. Beaty—*Potato Digger.*



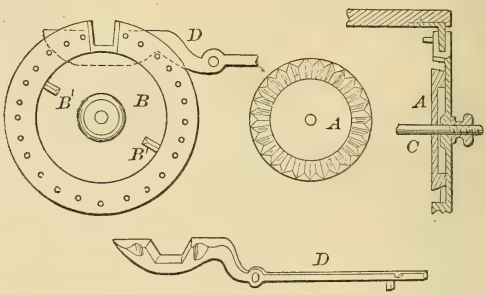

**87903**—A. Berney—*Vessel for Making Coffee.*



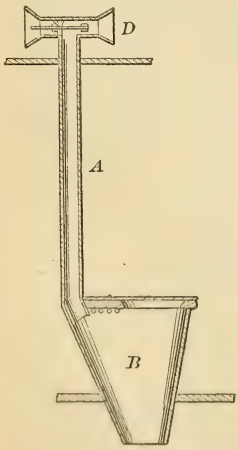

**87904** A. A. Bingham—*Milk Strainer.*



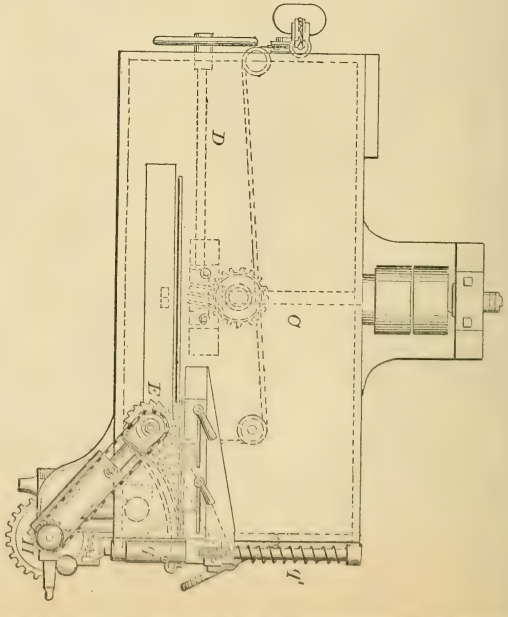

**87905**—F. Brewster—*Alarm Lock.*



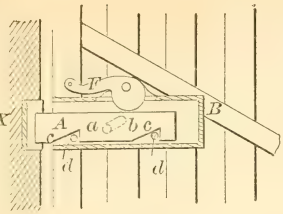

**87906**—F. H. Brown—*Ventilator for Water Closets.*



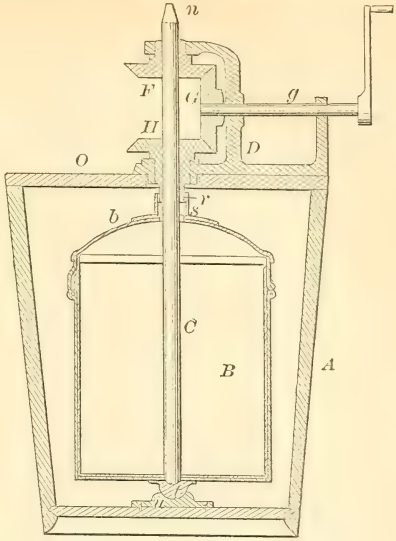

**87908**—J. Casson—*Sawing Machine.*



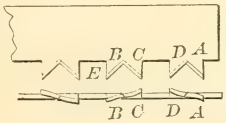
**87907**—L. Brumbach—*Latch.*



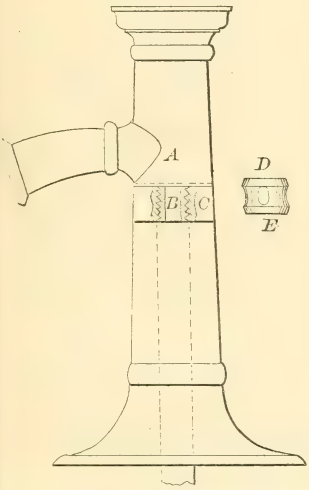

**87909**—J. R. Champlin—*Ice Cream Freezer.*



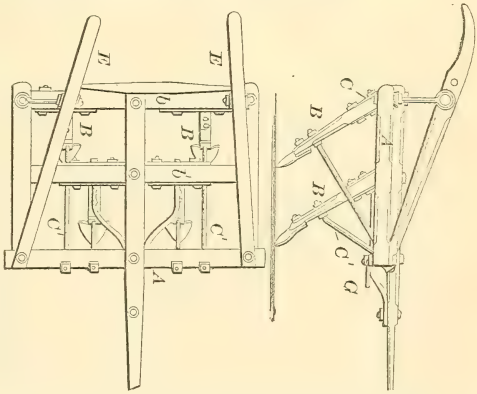

**87910**—W. Clemson—*Saw.*



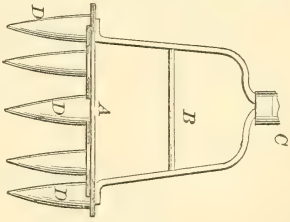

**87912**—G. Cowing—*Pump.*



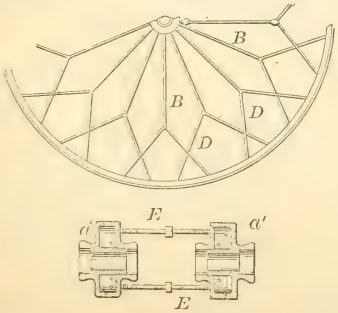

**87914**—J. M. Davidson—*Cultivator.*




**87911**—J. W. Colburn—*For Protecting Plants.*

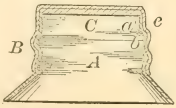



**87913**—C. Cummings—*Carriage Wheel.*

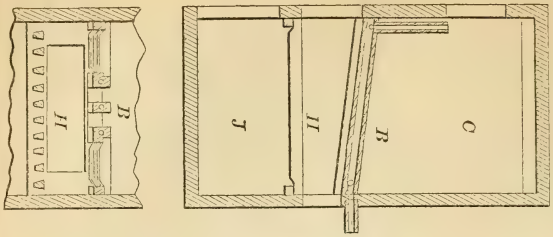



**87916**—A. B. Ely—*Heel Stiffening.*

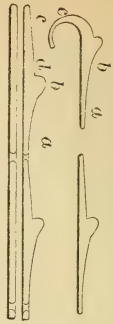
**87915**—F. W. Devoe—*Can.*



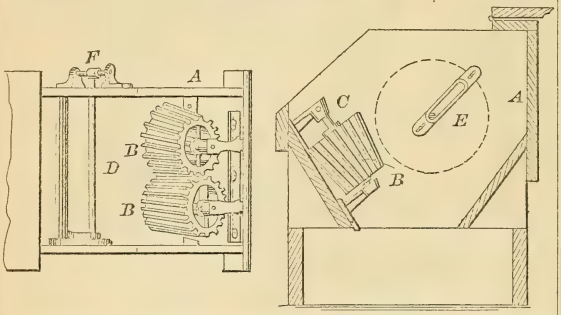
87917—W. Ennis—*Steam Boiler Furnace.*



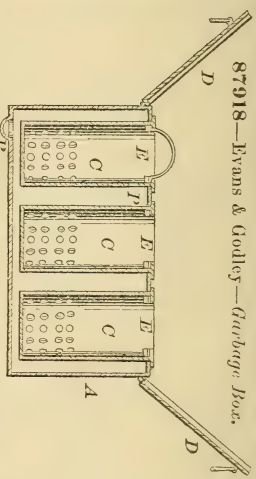

87919—Fellows & Lyon—*Hook Blanks.*



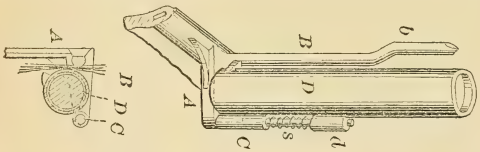

87920—P. Ferrier—*Corn Sheller.*



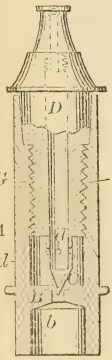

87918—Evans & Godley—*Garbage Box.*



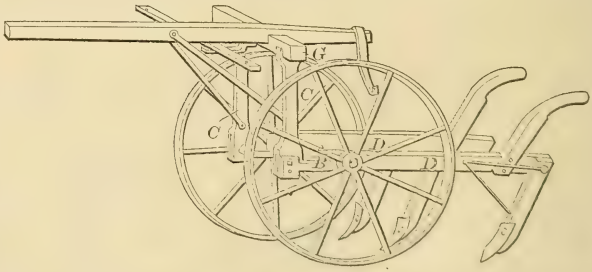

87921—J. R. Finney—*Whip Socket and Rein Holder.*



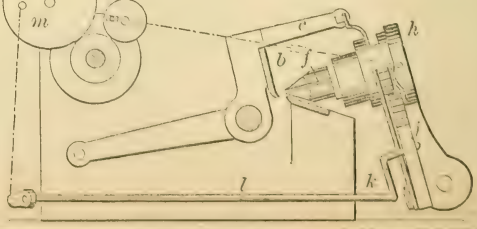

87922—C. Franz—*Gas Burner.*



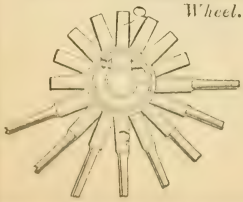

87923—J. C. French—*Cultivator.*



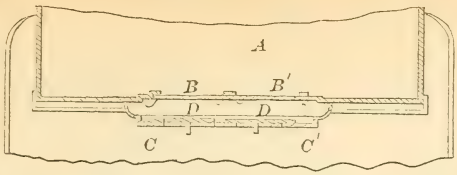

87924—J. C. Gould—*For Cutting Nails.*

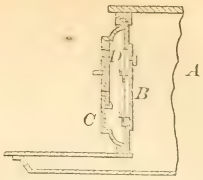



87926—D. Grim—*Carriage Wheel.*

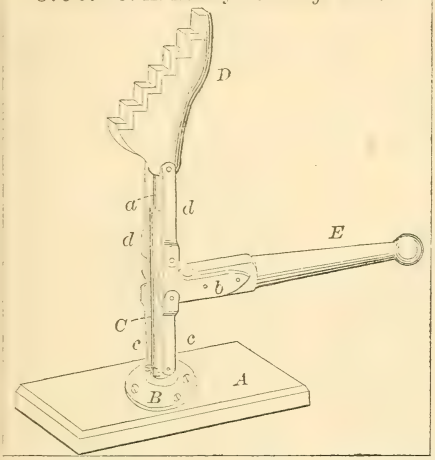


87925—Greer & King—*Store.*

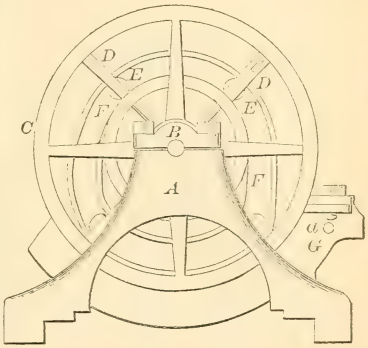


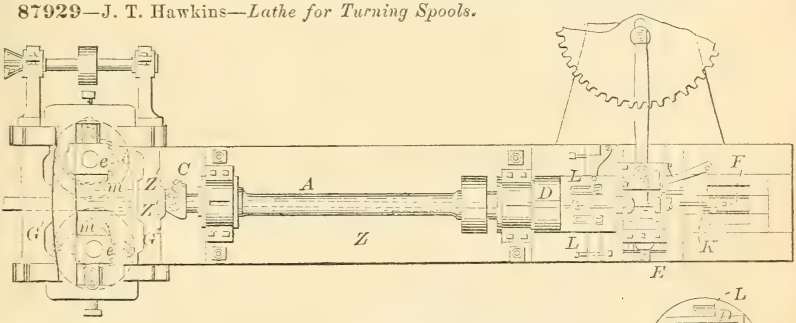

87927—J. H. Hadley—*Carriage Jack.*

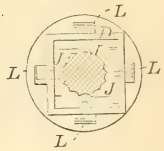



87928—S. H. Hamilton—*Steam Engine.*

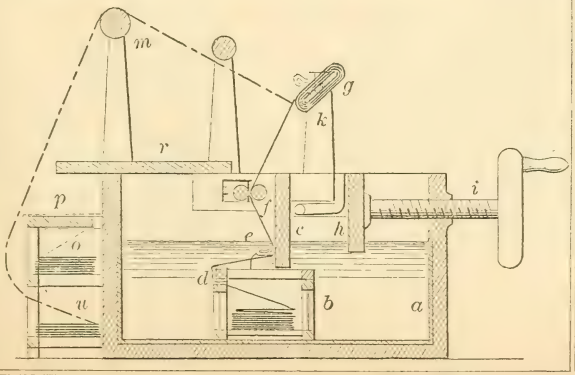



87929—J. T. Hawkins—*Lathe for Turning Spools.*

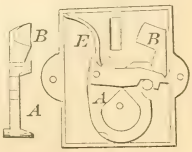


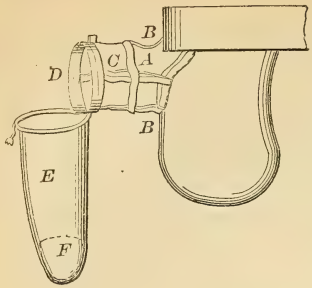

87930—W. Hebdon—*For Damping, &c., Cloth.*



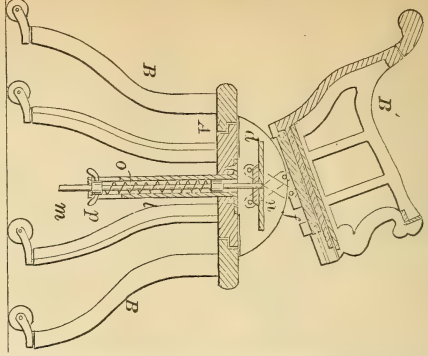

87931—L. Hillebrand—*Trunk Lock.*



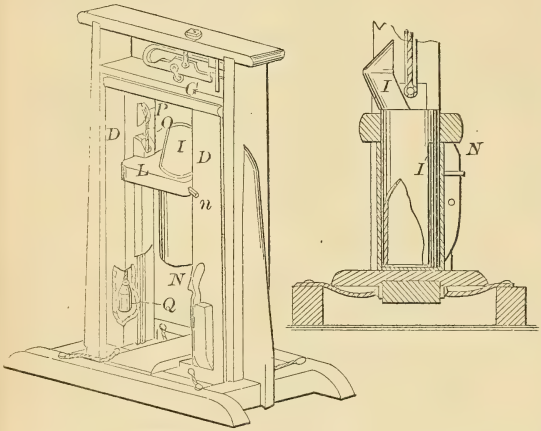
**87932**—E. F. Hofmann—*Bandage.*



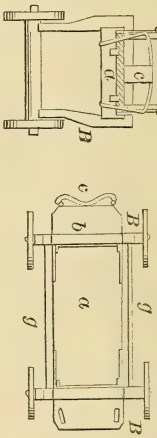

**87933**—C. Holtz—*Baby Chair.*



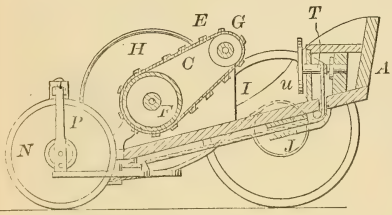

**87934**—C. B. Horton—*Flour Sacker.*

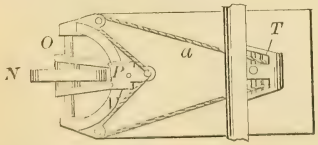



**87935**—J. Hoyt—*Truck for Moving Pianos.*

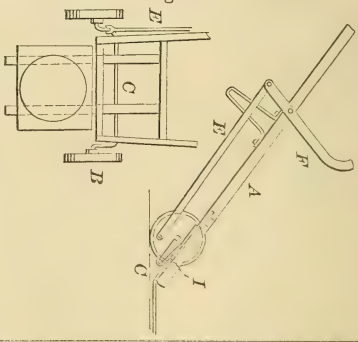



**87936**—N. W. Hubbard—*Velocipede.*

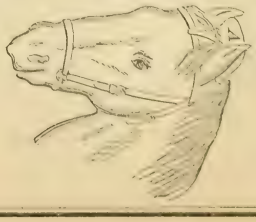


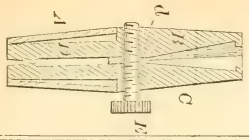

**87939**—H. C. Ingraham—*Truck.*



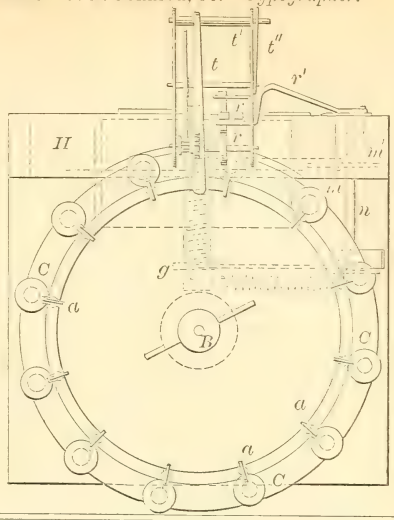

**87938**—D. K. Humphrey—*Pad for Horses.*



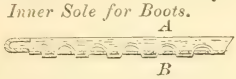
**87940**—W. A. Ives—*Bit Brace.*



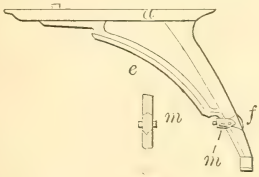
**87941**—J. F. Johnson, Jr.—*Typographer.*



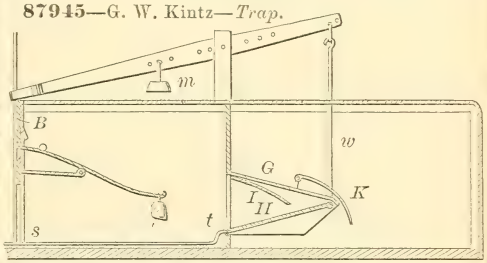
**87942**—Johnson & Sibley—*Inner Sole for Boots.*



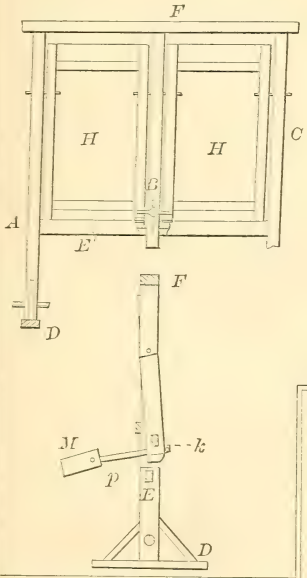
**87943**—C. P. Kimball—*Sleigh.*



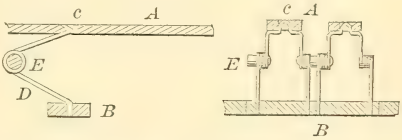
**87945**—G. W. Kintz—*Trap.*



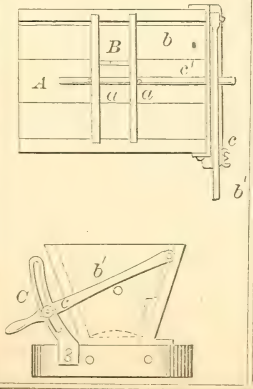
**87944**—A. L. King—*Flood Gate.*



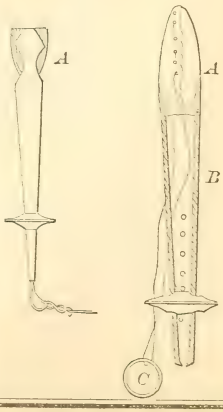
**87948**—R. O. Lowrey—*Bed Bottom.*



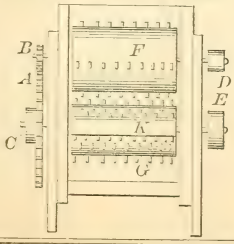
**87947**—J. L. Linderman—*Seed Sower.*



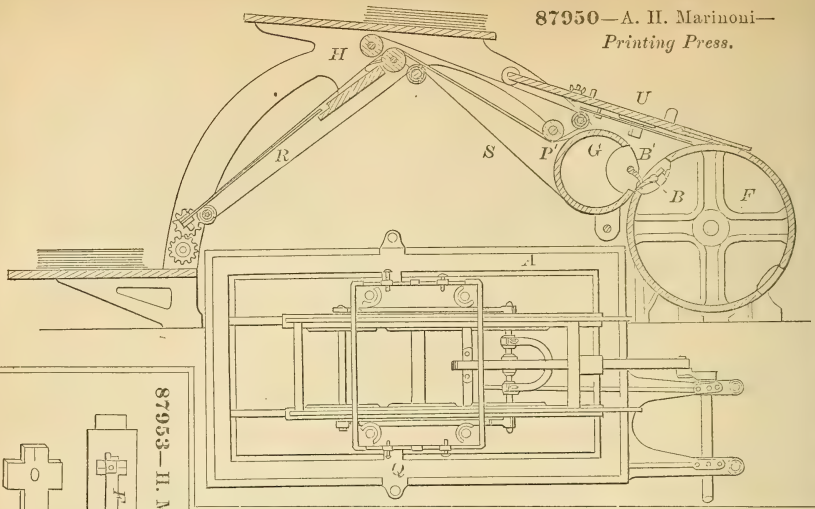
**87946**—A. M. A. Laforgue—*Surgical Instrument.*



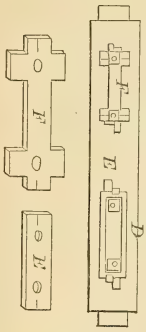
**87949**—Lutz, Eberly & Becker—*Threshing Machine.*



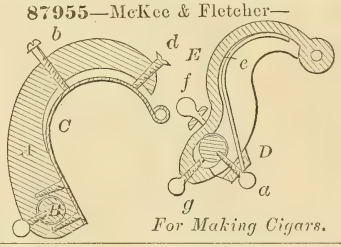
**87950**—A. H. Marinoni—*Printing Press.*




**87953**—H. McCown—*For Locking Nuts.*

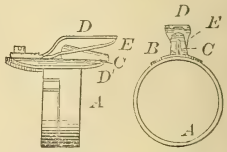



**87955**—McKee & Fletcher—

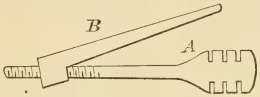



*For Making Cigars.*

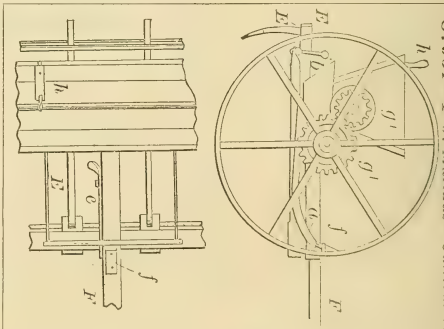
**87954**—S. F. McGown—*Twine Cutter.*



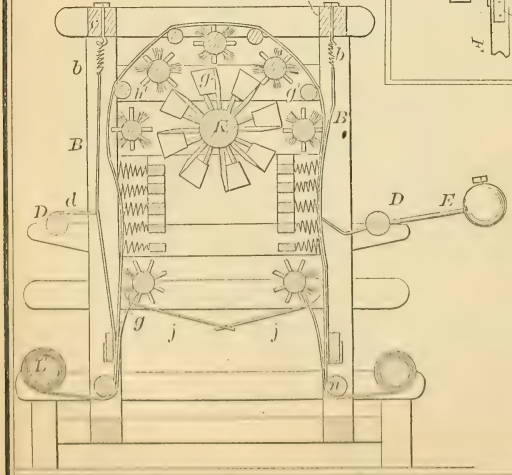

**87956**—J. Merrill—*Saw Set.*



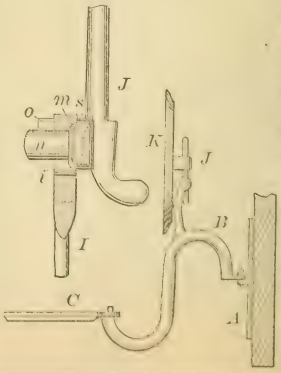

**87951**—T. J. Marinus—*Cultivator.*



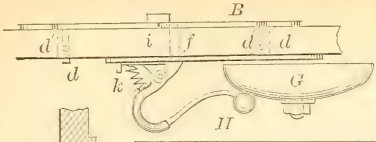

**87952**—W. McArthur—*Carpet Cleaning Machine.*

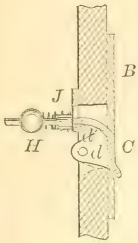



**87957**—C. H. Miller—*Lamp Bracket.*

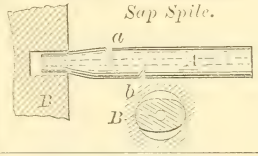


**87958**—C. H. Miller—*Door Plate and Alarm.*

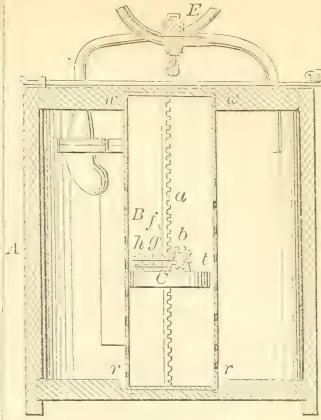


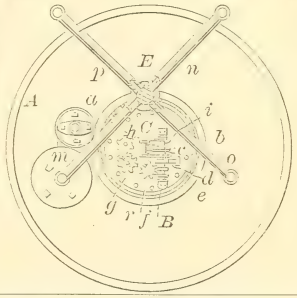


**87960**—P. Morrison—*Sap Spile.*

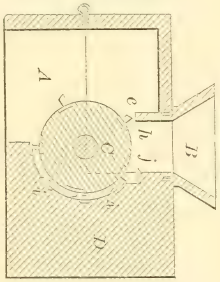


**87959**—Minor & M. W. & G. W. Nesmith—*Liquid Meter.*

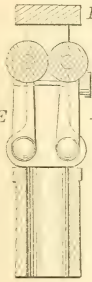




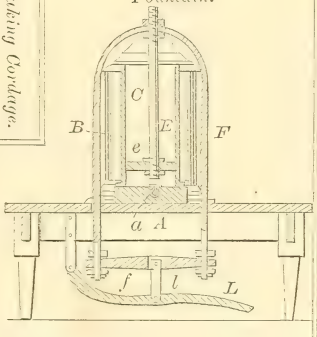
**87961**—G. Mosman—*Meat Cutter.*



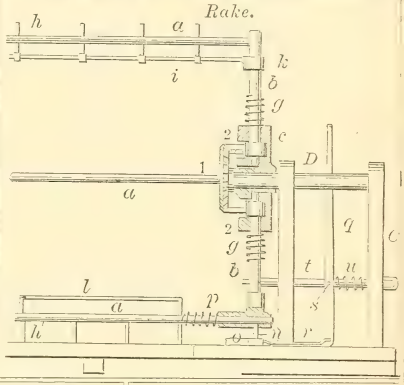
**87964**—I. E. Palmer—*For Making Cordage.*



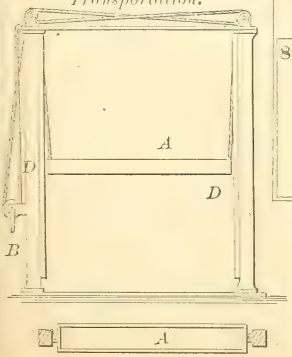
**87962**—D. Neff—*Soda Fountain.*



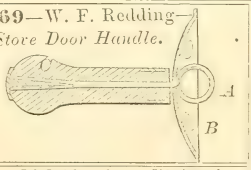
**87963**—A. & C. W. Palmer—*Harvester Rake.*



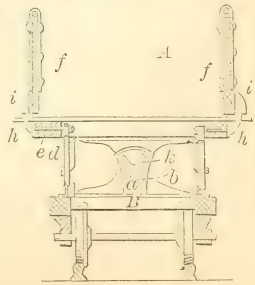
**87970**—W. Reid—*For Feeding Cattle during Transportation.*



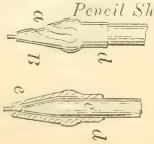
**87969**—W. F. Redding—*Stove Door Handle.*



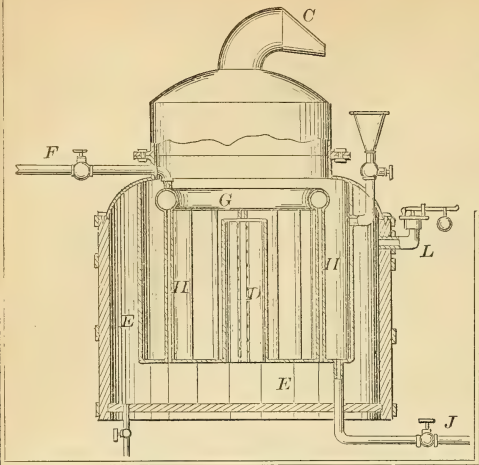
**87966**—A. Peteler—*Car.*

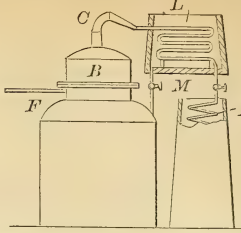


**87967**—C. C. Plaisted—*Pencil Sharpener.*



87971—Robson & Hughes—*Still.*




87973—J. M. Roe—*Saddle Loop for Harness.*

Fig. 1

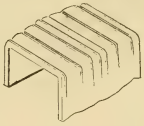


Fig. 2

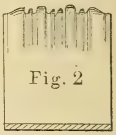


Fig. 3

Fig. 4

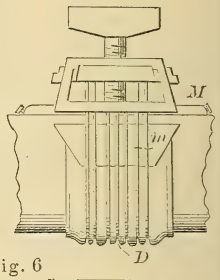



Fig. 5

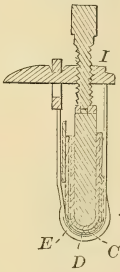



Fig. 6

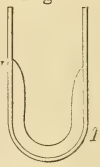
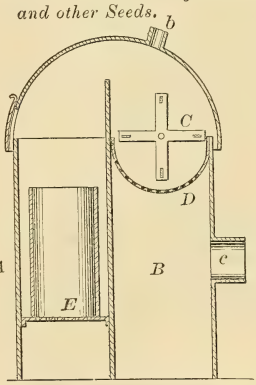
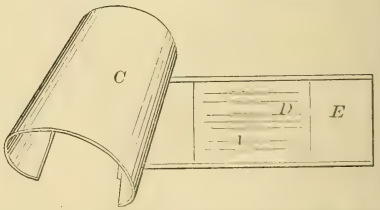


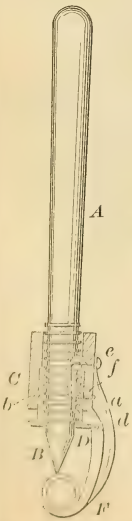

Fig. 7

87975—T. Rowe—*Cleaning Cotton and other Seeds.*

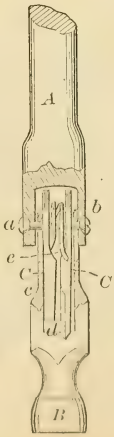


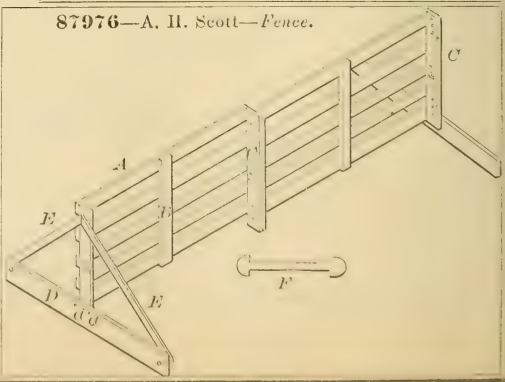

87972—H. Richter—*Gas Pliers.*



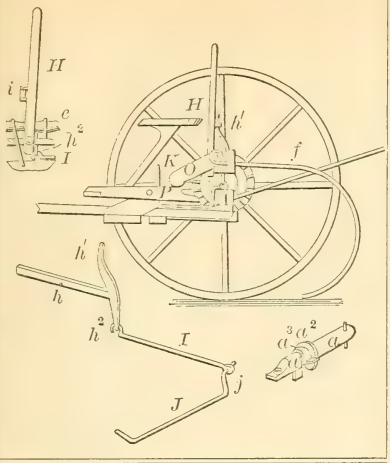

87974—J. Rose—*Recessing Tool.*



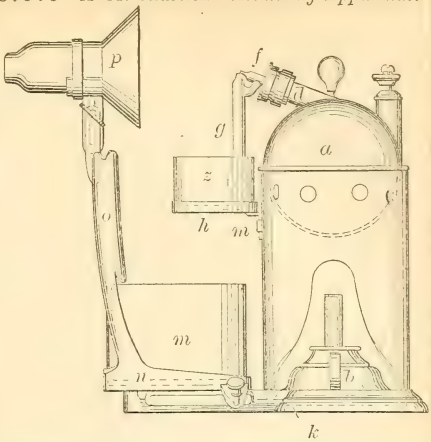

87976—A. H. Scott—*Fence.*



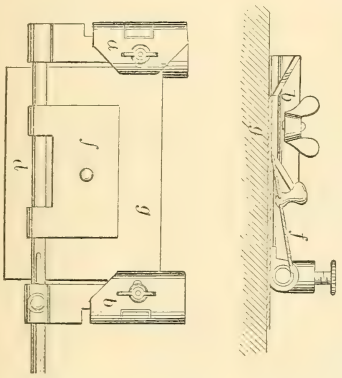
**87977**—J. H. Shireman—*Horse Rake.*



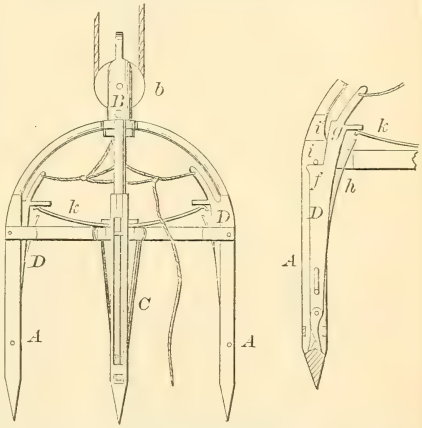

**87978**—A. M. Shurtleff—*Atomizing Apparatus.*



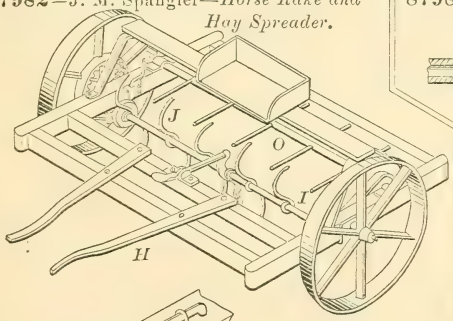

**87983**—N. Stafford—*Stencil Cutting Gauge.*

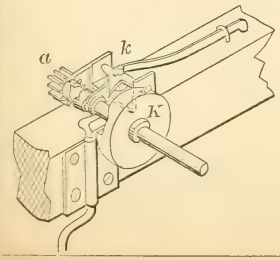



**87979**—E. Huoncker—*Horse Hay Fork.*

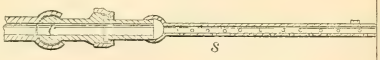


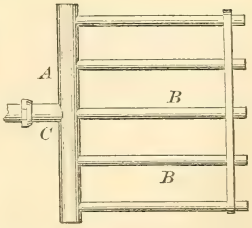

**87982**—J. M. Spangler—*Horse Rake and Hay Spreader.*



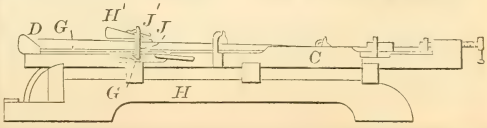




**87984**—G. A. Starkweather—*For Leaching Bark and other Material.*

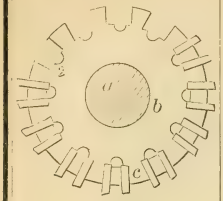


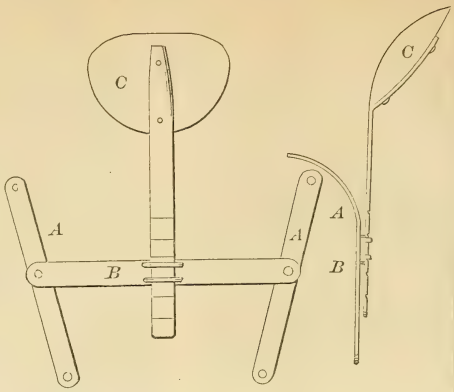

**87981**—A. G. Snyder—*Wood Bending Machine.*



87985—A. P. Stephens—*Metal Cutter.*



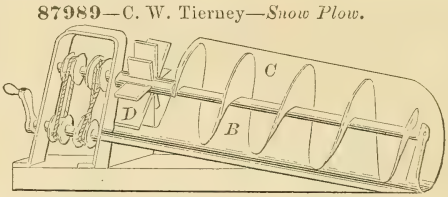

87987—T. B. Stout—*Head Rest.*



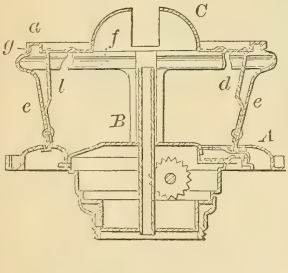

87991—T. H. Tyndale—*Carpet Fastener.*

87990—G. H. Todd—*Cartridge Shell.*

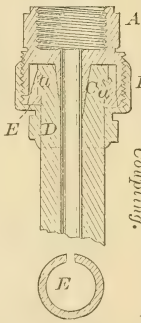
87989—C. W. Tierney—*Snow Plow.*



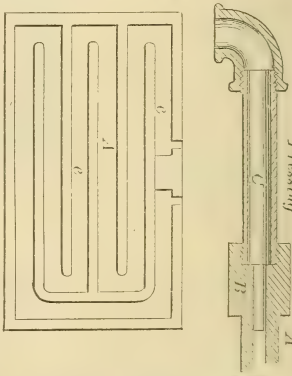

87988—A. Taplin—*Lamp Burner.*



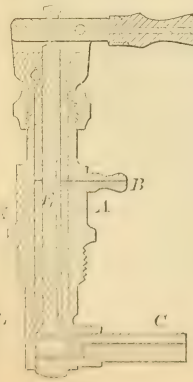

87993—C. H. Weston—*Hose and Pipe Coupling.*



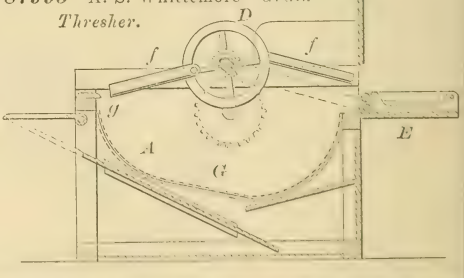

87994—C. H. Weston—*For Cloth Pressing*




87992—J. Waters—*Steam Generator Gauge Cock.*

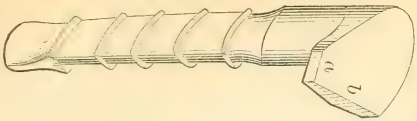



87995—A. S. Whittemore—*Grain Thresher.*

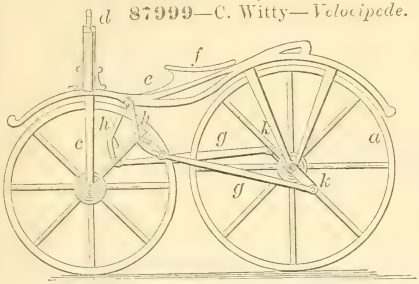



87997—D. Williamson—*Fire Arm.*

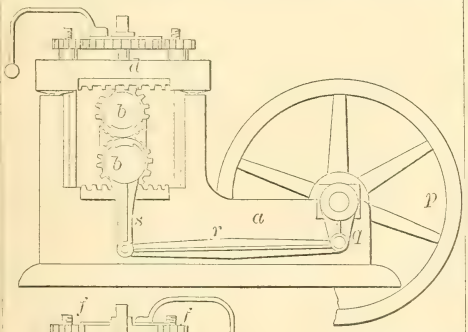
87998—S. Winkley—*Spike.*

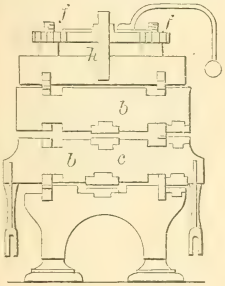



87999—C. Witty—*Velocipede.*

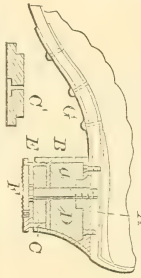



88003—W. Baker—*Breech Plates for Guns.*

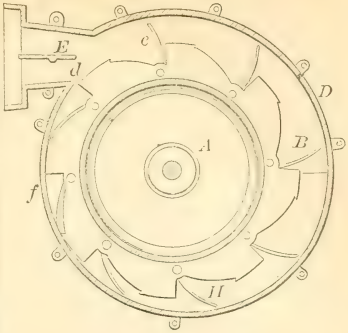


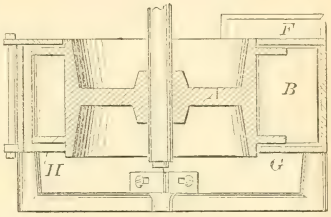




88000—A. T. Perrine—*Boot Heel.*

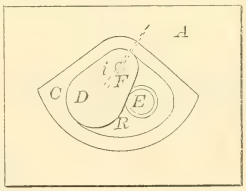


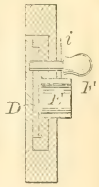

88001—J. B. Park—*Water Wheel.*



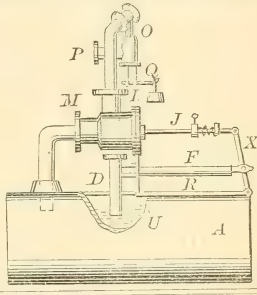




88008—L. S. & Z. H. Chase—*Valve for Vessel Bottoms.*

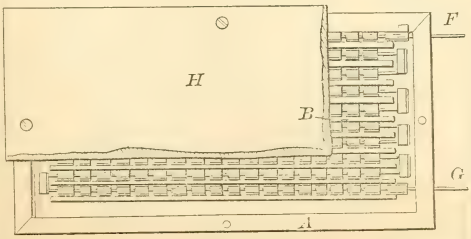


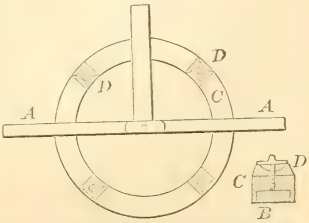

88005—J. Boden—*Boiler Feeder.*



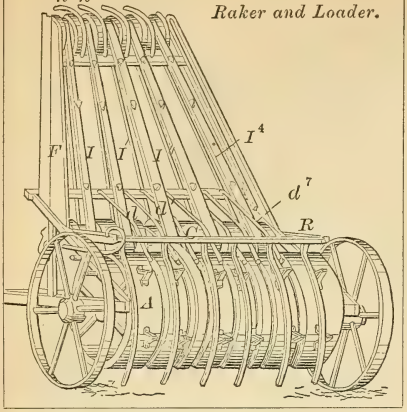

88006—W. L. Burton—*Heating Apparatus.*



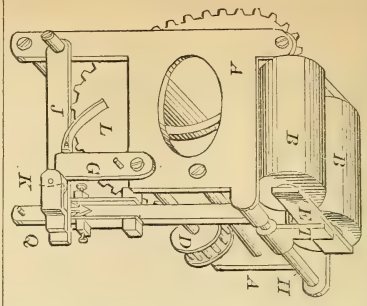

88007—E. G. Cameron—*Fifth Wheel for Vehicles.*



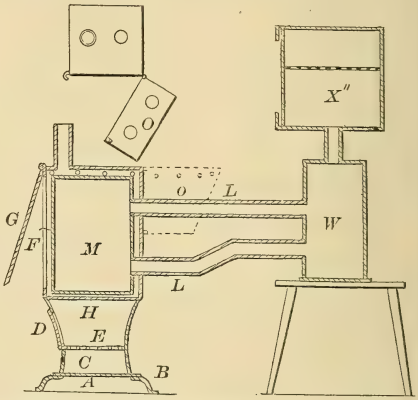
88009—R. Chesnut—*Hay Raker and Loader.*

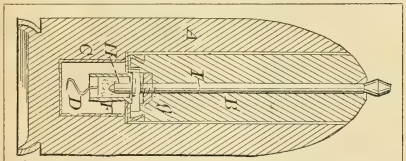



88010—S. & C. T. Chester—*Tripping Mechanical Detents.*



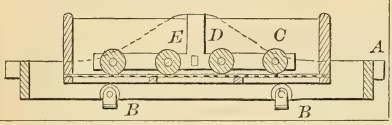

88011—O. E. Clark—*Cooking Stove.*



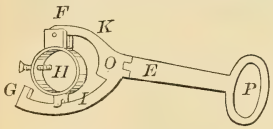




88012—W. A. Cobb—*Projectile.*

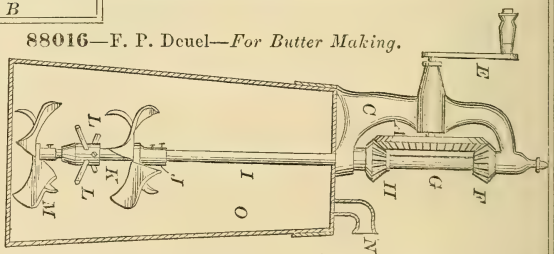
88014—J. Coyle—*Flour Sifter.*



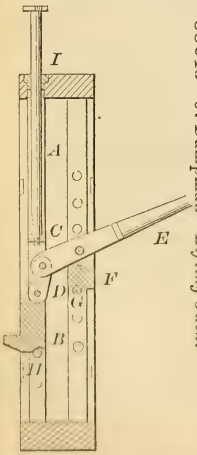

88013—H. W. Connor—*Oar.*



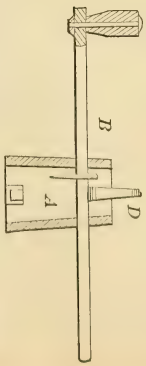

88016—F. P. Deuel—*For Butter Making.*



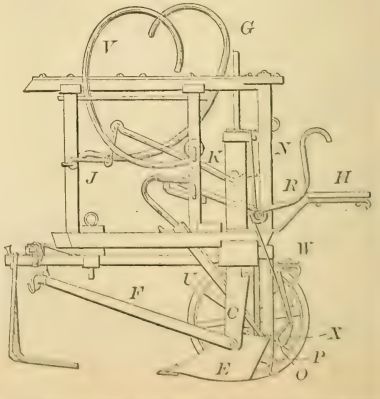

88015—J. Dampman—*Lifting Jack.*



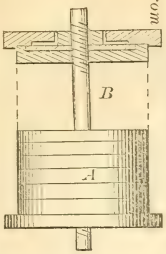

88017—L. R. Dexter—*Wrench.*



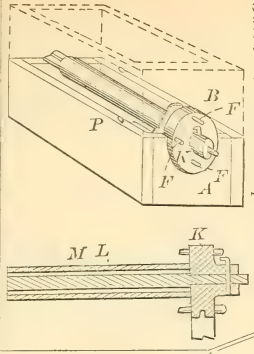

88018—E. L. Dorsey—*Road Scraper.*



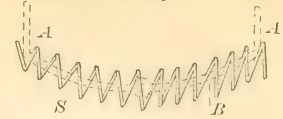
88019—W. G. Douglas—*For Extracting Cockle from Wheat.*



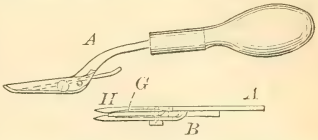

88020—J. Edson—*Pipe Mould.*



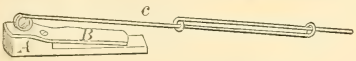

88021—A. B. Ely—*Bridle Bit.*



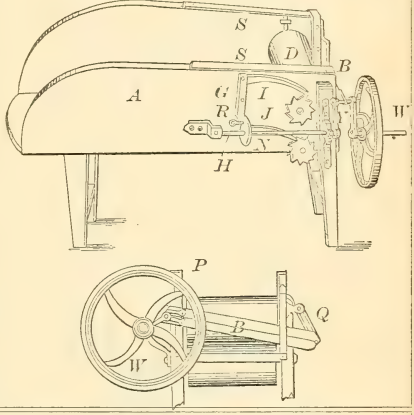

88024—M. J. Ferren—*Welt Knife.*



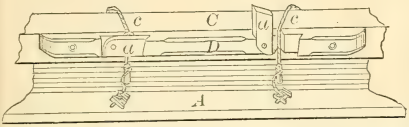

88022—F. Emmons—*Book Holder.*



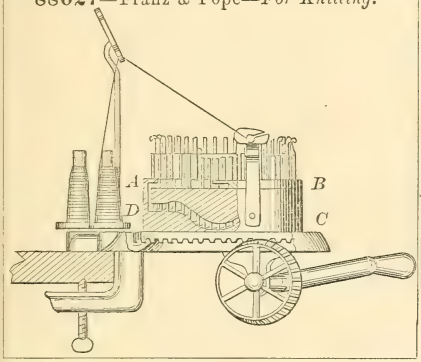

88023—S. F. Estell—*Straw Cutter.*



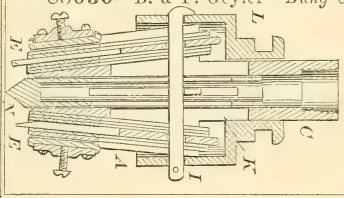

88026—C. S. H. Foster—*Mackerel Latch.*



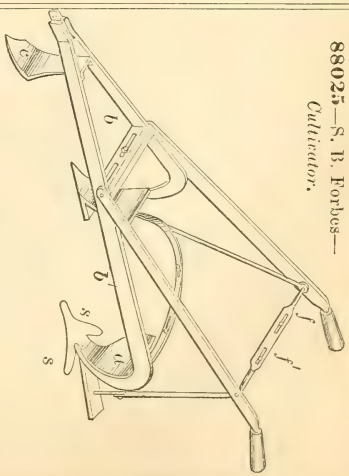

88027—Franz & Pope—*For Knitting.*



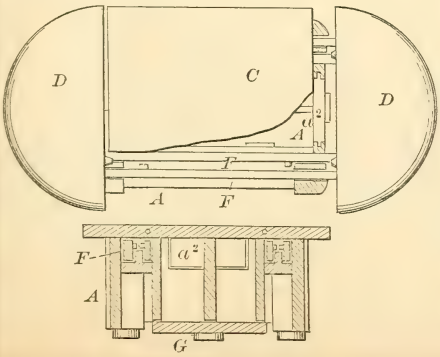

88030—B. & F. Geyler—*Bung Cutter.*



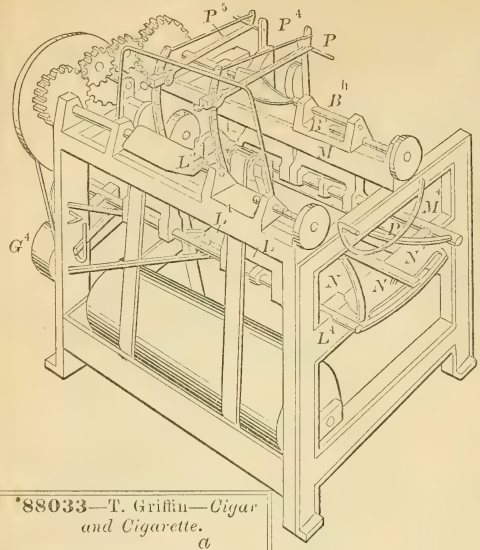

88025—S. B. Forbes—*Cultivator.*



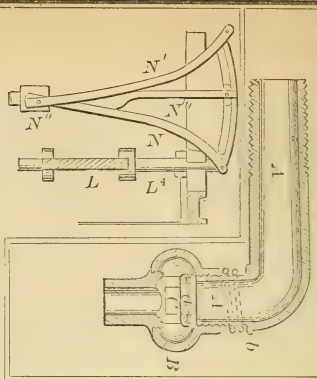

88028—L. Freeman—*Table.*



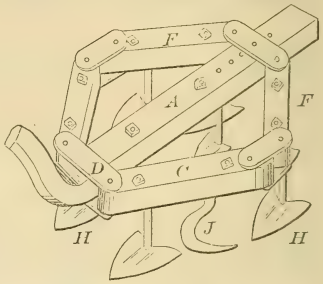
88029—R. R. Frohock—*Last Machine.*




88032—D. W. Green—*Faucet.*

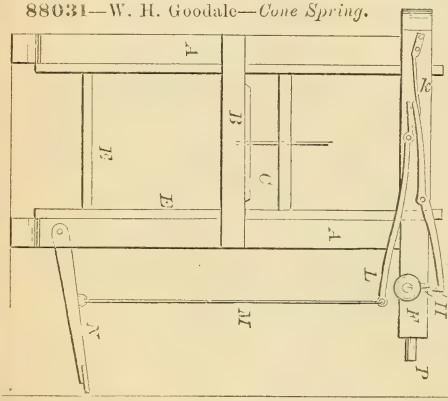



88034—A. Grohmann—*Cultivator.*

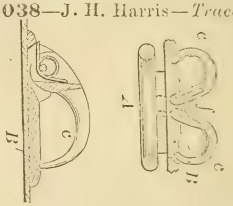



88033—T. Griffin—*Cigar and Cigarette.*

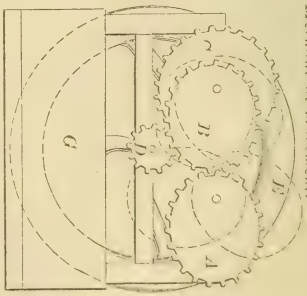
88031—W. H. Goodale—*Cone Spring.*



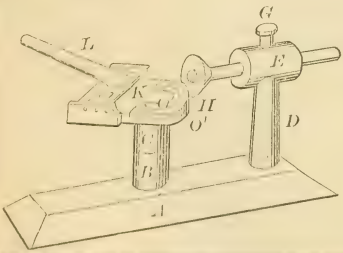

88038—J. H. Harris—*Trace Carrier.*



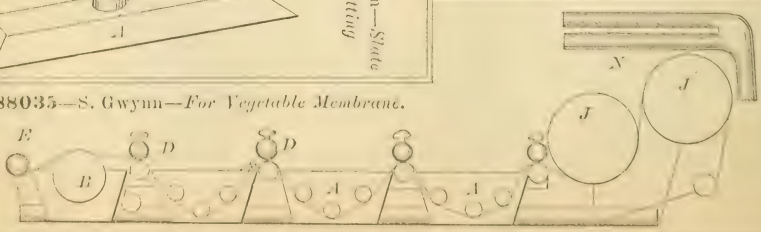

88040—H. R. Haling—*Mechanical Movement.*



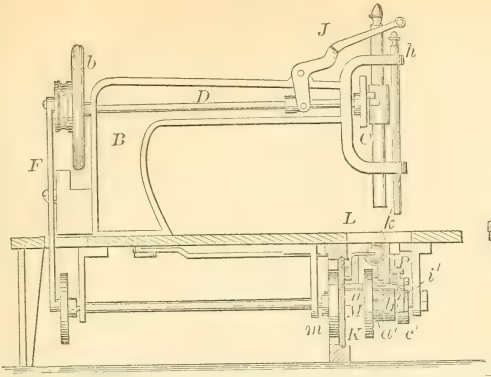

88037—L. M. Ham—*Slate Punching and Cutting Machine.*

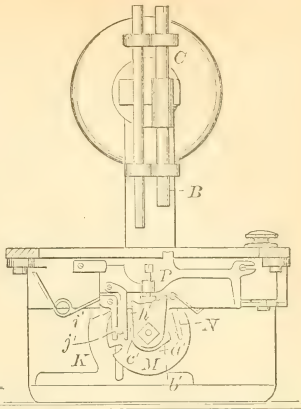



88035—S. Gwynn—*For Vegetable Membrane.*

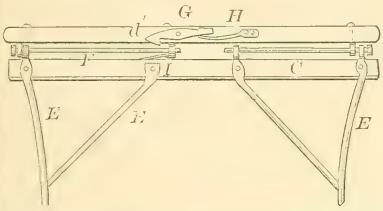


**88039**—M. C. Hawkins—*Sewing Machine.*

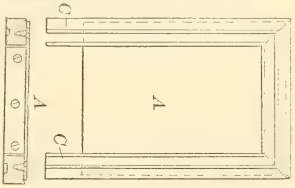


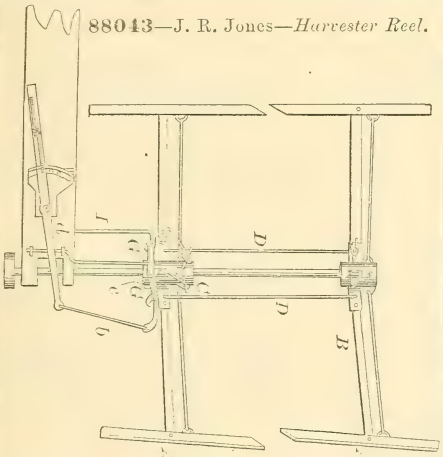

**88042**—S. Jennings—*Thill Shifter.*



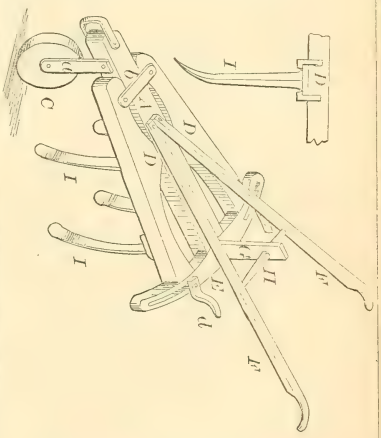

**88041**—E. Hutchins—*Printers' Galley.*



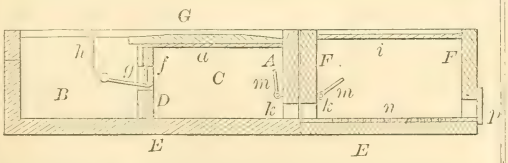

**88043**—J. R. Jones—*Harvester Reel.*



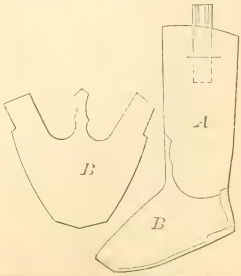

**88045**—H. Landes—*Cultivator.*



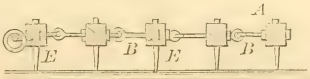

**88044**—J. H. & J. Kiplinger—*Fly Trap.*



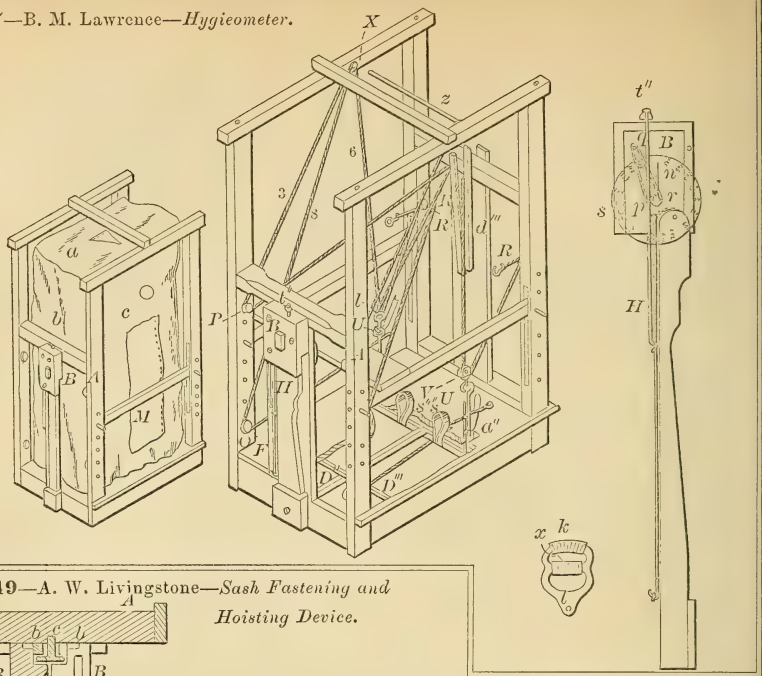

**88050**—J. H. Livingston—*Boot.*



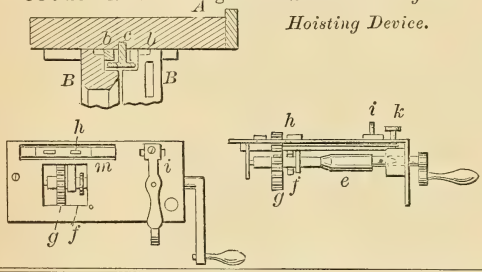

**88046**—Lane & Healy—*Harrow.*



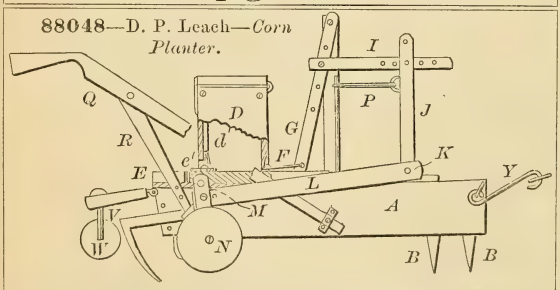
**88047**—B. M. Lawrence—*Hygieometer.*



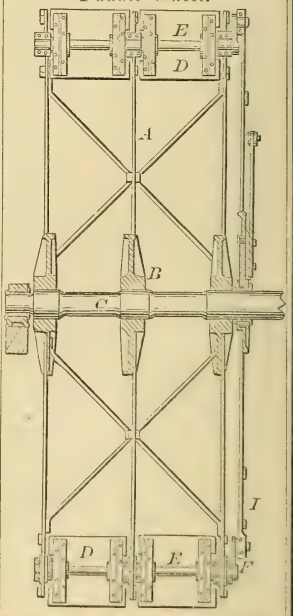

**88049**—A. W. Livingstone—*Sash Fastening and Hoisting Device.*



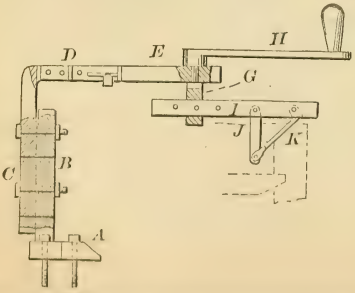

**88048**—D. P. Leach—*Corn Planter.*



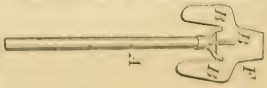

**88052**—W. R. Manley—*Paddle Wheel.*



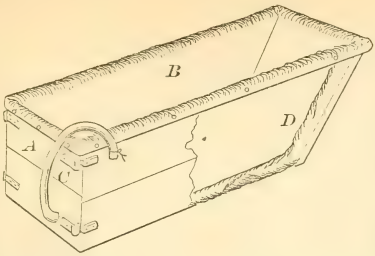

**88053**—Mattox & Corson—*Chamfering Machine.*



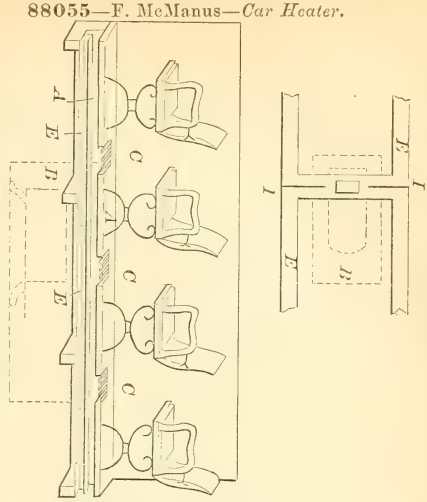

**88051**—J. F. Lowe—*Hoe.*



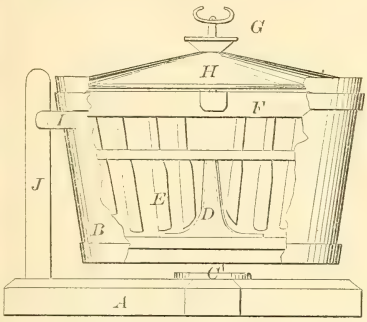
**88054**—R. McCully—*Bath Tub.*



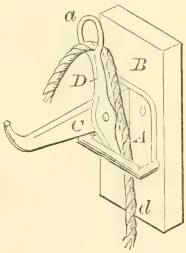

**88055**—F. McManus—*Car Heater.*



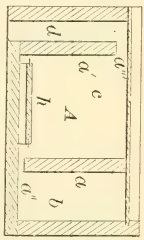

**88056**—C. Messenger—*Churn.*



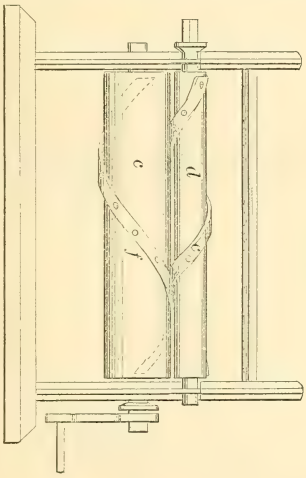

**88057**—W. A. Middleton—*Coat Hook and Line Holder.*



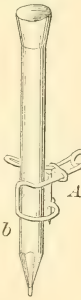

**88058**—P. Miller Jr.—*Bee Feeder.*



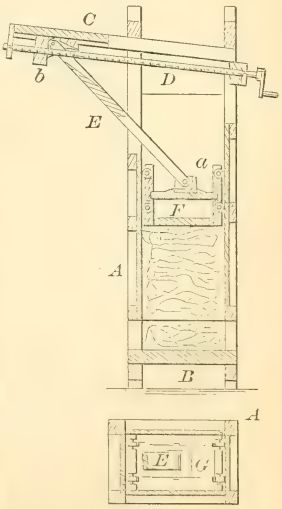

**88061**—S. R. Morgan—*For Transmitting Rotary Motion.*



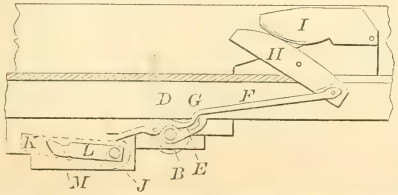

**88060**—J. L. Moore—*Pencil Holder.*



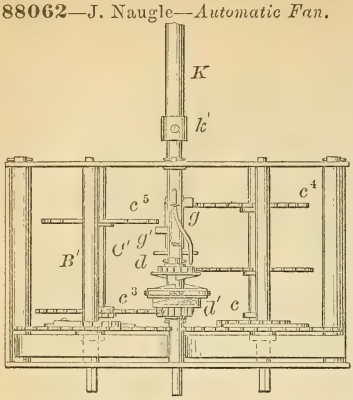

**88059**—C. W. Millerd—*Cotton Press.*

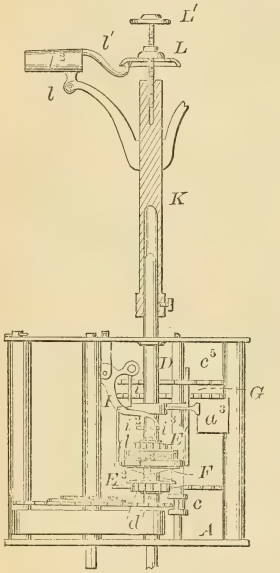



**88063**—I. H. Newton—*For Turning Logs in Mills.*

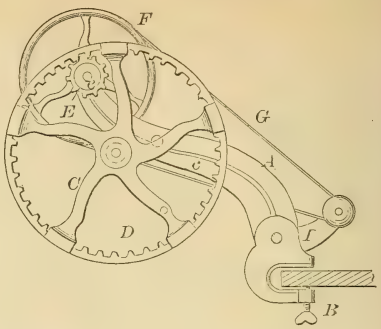


**88062**—J. Naugle—*Automatic Fan.*

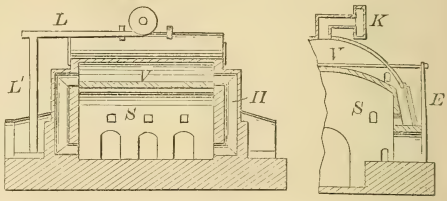


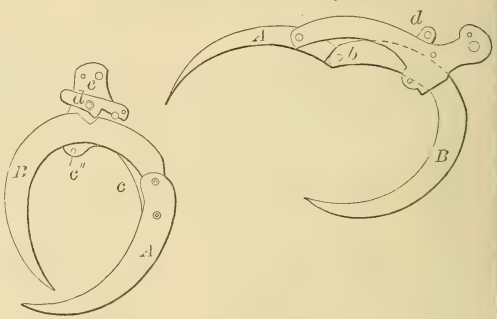

**88065**—F. M. Nixon—*Spinning Machine.*




**88066**—S. Oakman—*Glass Furnace.*

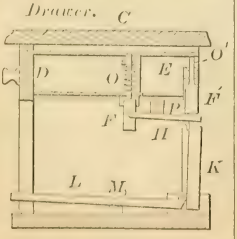



**88067**—O. Paddock—*Horse Hay Fork.*

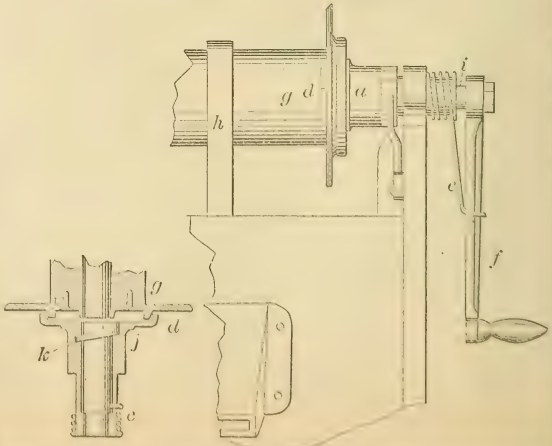



**88072**—E. R. Playle—*Crucible.*

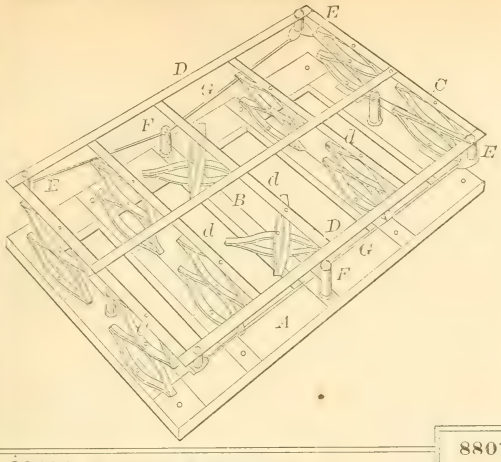
**88068**—C. L. Page—*Money Drawer.*



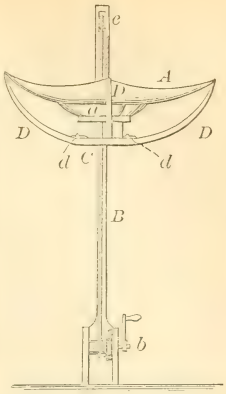

**88069**—C. D. Palmister—*Water Elevator.*



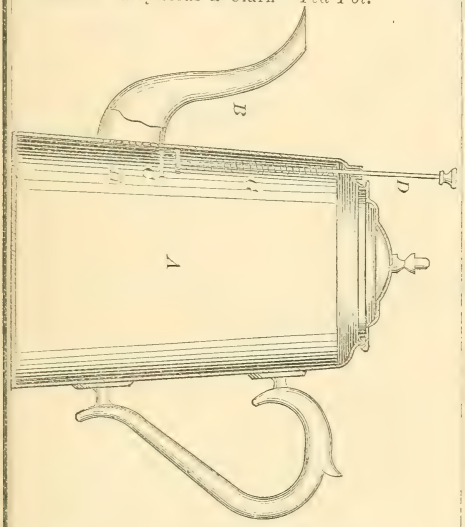
88070—B. Partello—*Bed Bottom.*



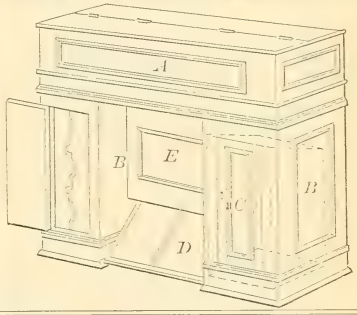

88071—H. Perry—*Fruit Gatherer.*



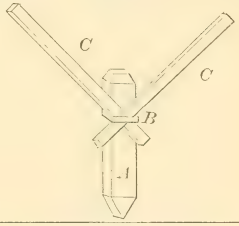

88076—Reynolds & Clark—*Tea Pot.*



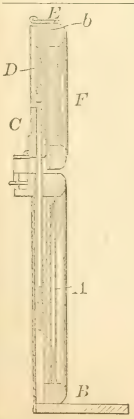

88073—G. S. Randall—*Melodeon Case.*



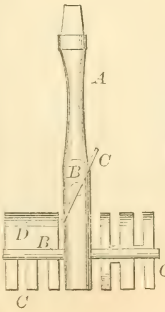

88074—A. Rathbun—*Grape Trellis.*



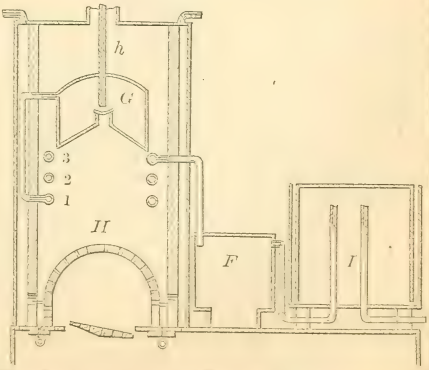

88077—L. H. Rogers—*Toilet Mirror.*



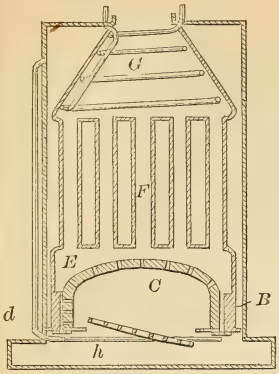

88078—W. M. Rumrill—*Churn.*



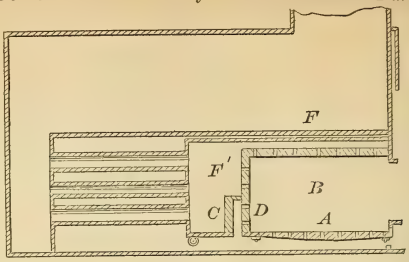

88079—S. C. Salisbury—*For Generating Gas and Heating Buildings.*



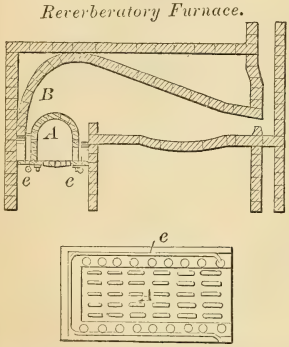
**88080**—S. C. Salisbury—*Steam Generator Furnace.*



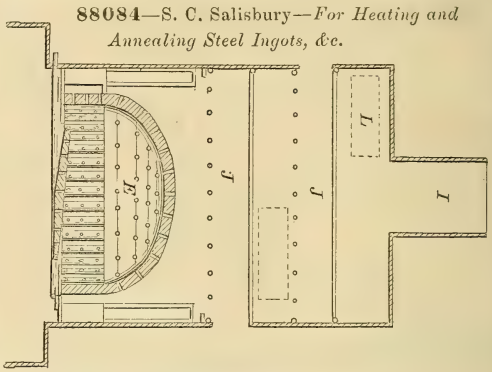

**88081**—S. C. Salisbury—*Steam Generator Furnace.*



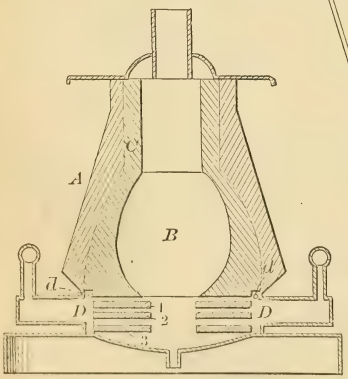

**88082**—S. C. Salisbury—*Reverberatory Furnace.*



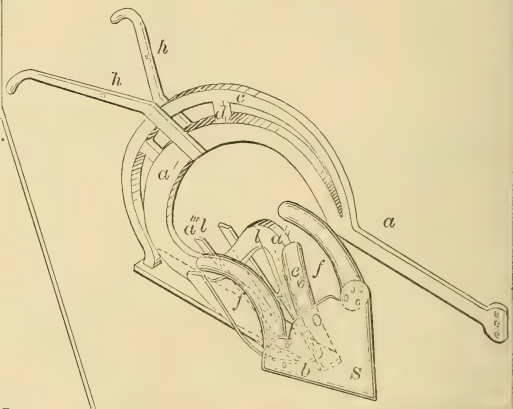

**88084**—S. C. Salisbury—*For Heating and Annealing Steel Ingots, &c.*



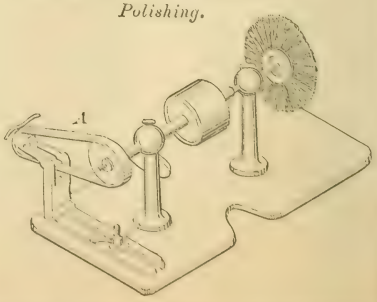

**88083**—S. C. Salisbury—*Furnace.*



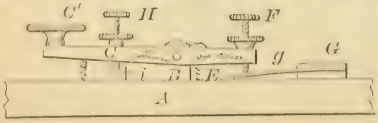

**88088**—I. Shaw—*Potato Digger.*



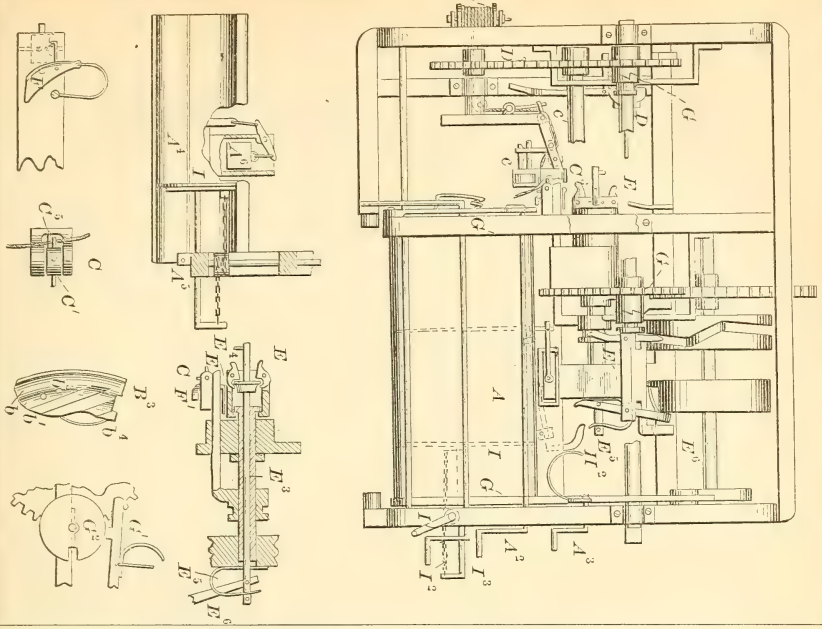

**88086**—Semple & Stephens—*For Polishing.*



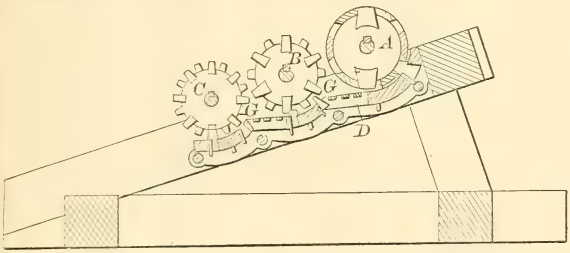

**88085**—J. E. Selden—*Telegraph Apparatus.*



**88087**—G. B. Shafer—*Grain Binder.*

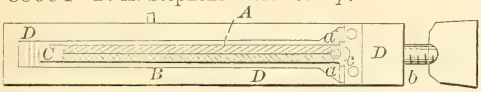


**88092**—G. B. Stacy—*For Hackling Corn Husks.*

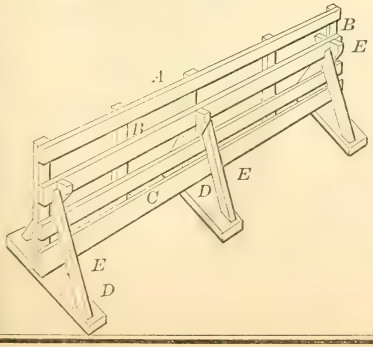


**88091**—H. A. Solliday—*For Harvesters.*

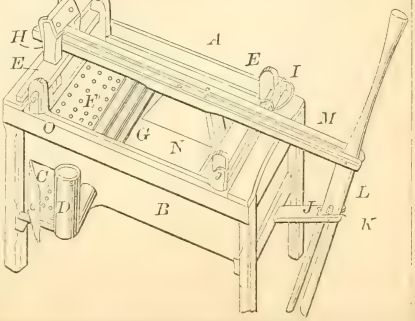
**88094**—D. H. Stephens—*Rule Clamp.*



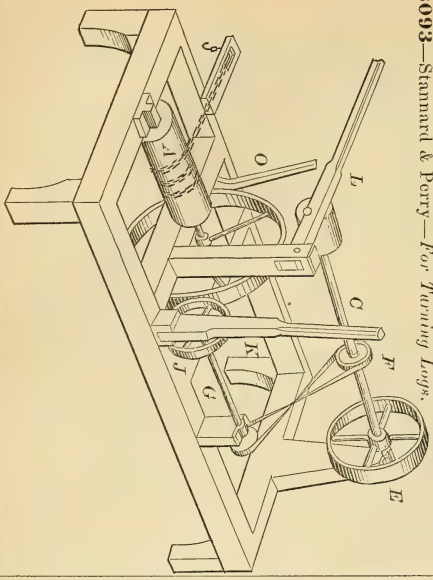
**88090**—A. Skinner—*Fence.*



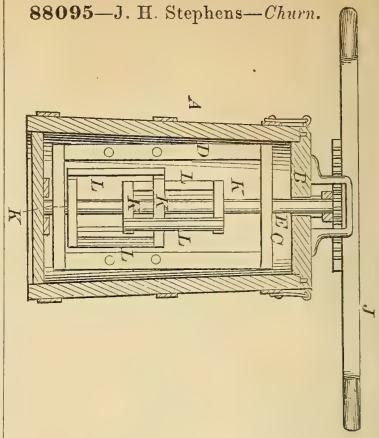
**88089**—J. P. Simmons—*Washing Machine.*



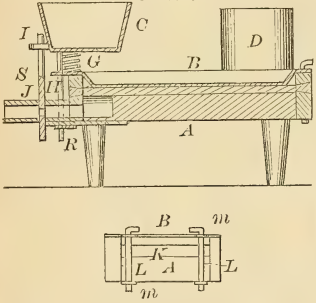
**88093**—Stannard & Perry—*For Turning Logs.*



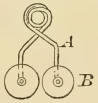
**88095**—J. H. Stephens—*Churn.*



**88096**—J. C. Thayer—*Milk Cooler.*

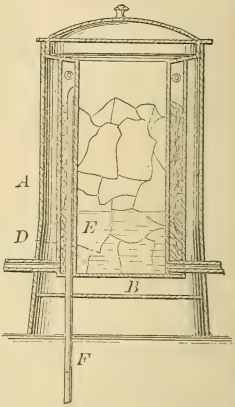


**88097**—C. N. Tyler—

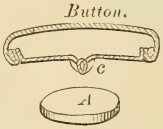


*Clothes Pin.*

**88098**—J. Van Duzer—*Double Cooler.*



**88099**—W. W. Wade—*Button.*



**88100**—W. B. Wadsworth—*Chain Manufacture.*

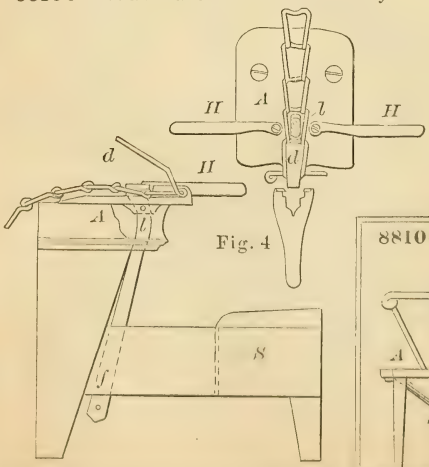
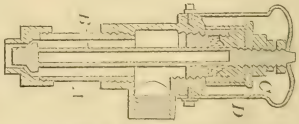
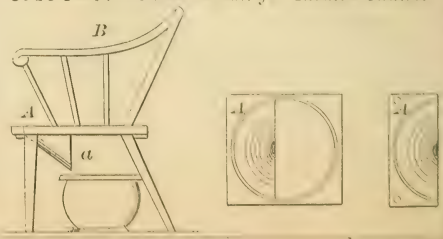


Fig. 4

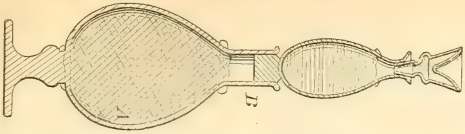
**88103**—J. E. Watts—*Steam Trap.*



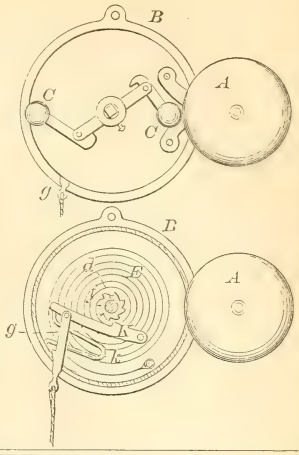
**88104**—G. Wells—*Conduit for Invalid Chairs.*



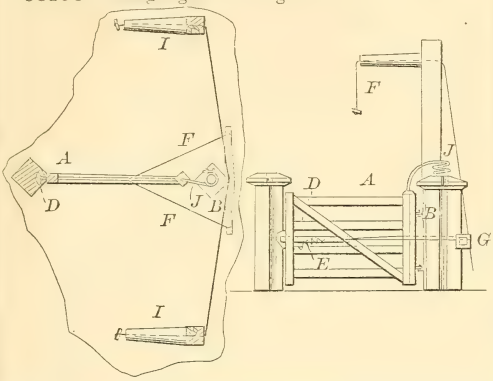
**88105**—H. Whitney—*Show Bottle.*



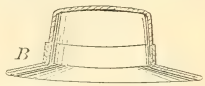

**88106**—C. Wiley—*Alarm Bell.*



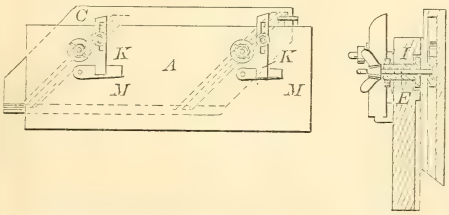

**88108**—Wolfgang & Kenreigh—*Gate.*



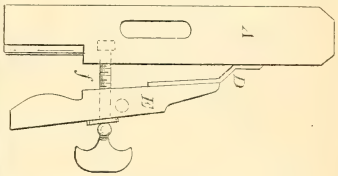

**88107**—D. Wilcox—*Hat.*



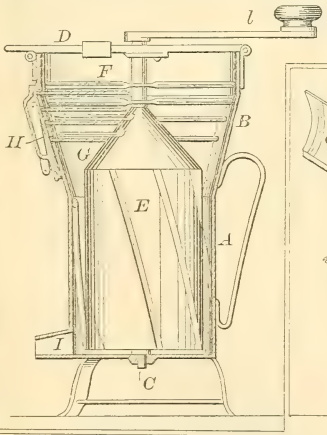

**88109**—J. Woodville—*Plane Guide.*



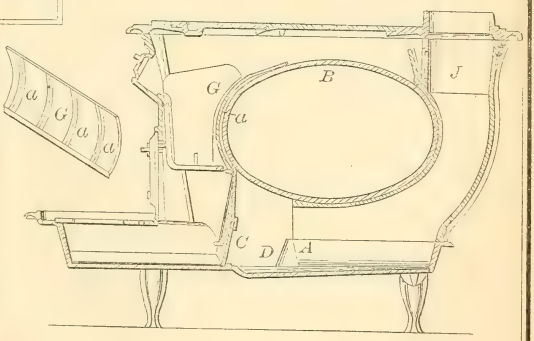

**88110**—J. Young—*Clothes Wringer.*



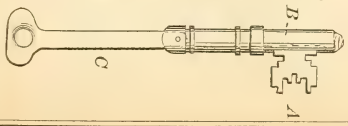

**88111**—W. Zeiger—*Potato Masher.*



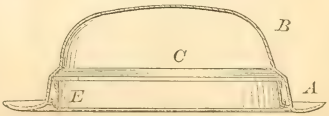

**88112**—J. J. Anderson—*Stove.*



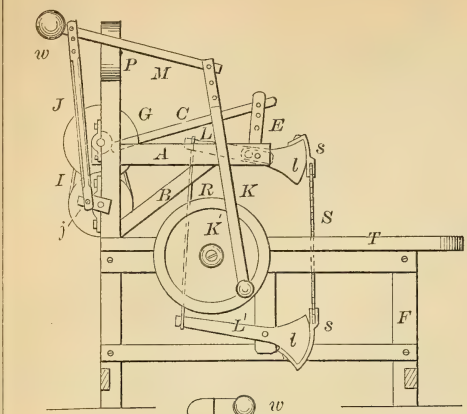

**88113**—W. H. Andrews—*Door Key.*

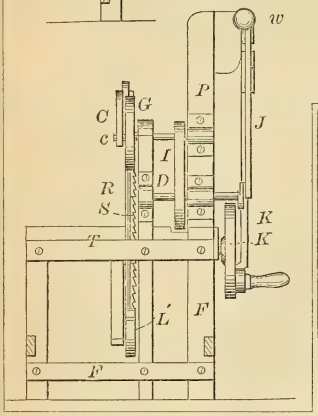



**88116**—J. P. Beatty—*Hat.*

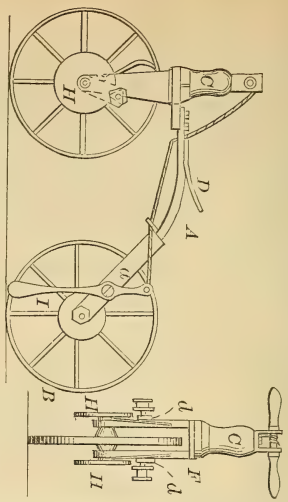


**88114**—I. B. Arthur—*Gig Saw.*

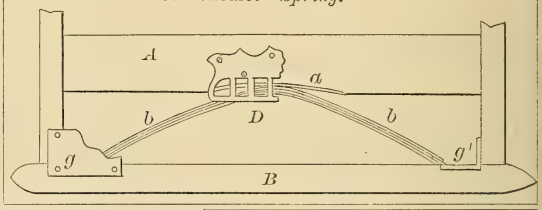


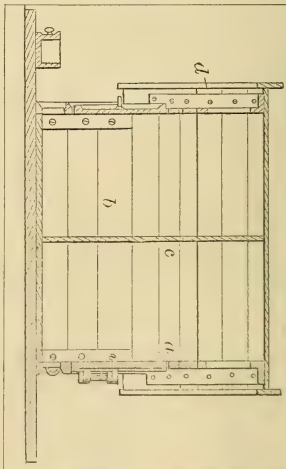

**88120**—J. B. Blair—*Velocipede.*



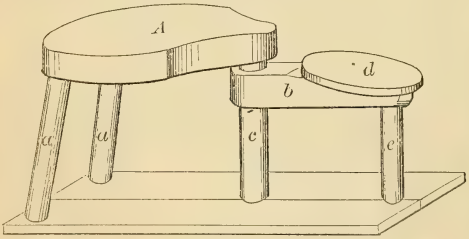

**88117**—E. U. Benedict—*Spring.*



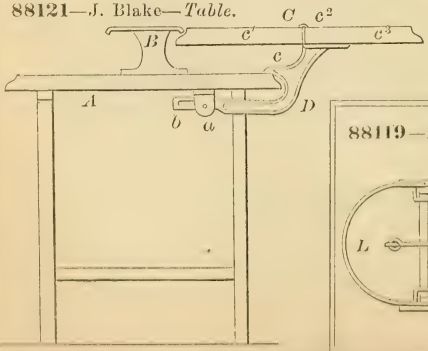

**88118**—S. S. Bent—*Poultry Coop.*



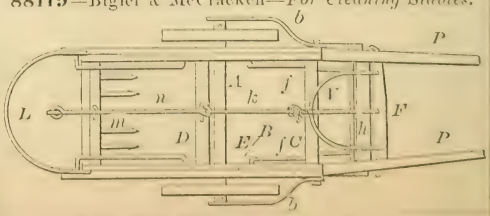

**88115**—I. Barrows—*Milking Stool.*



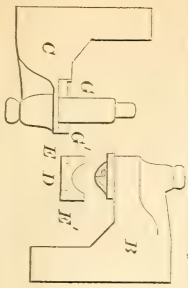

**88121**—J. Blake—*Table.*



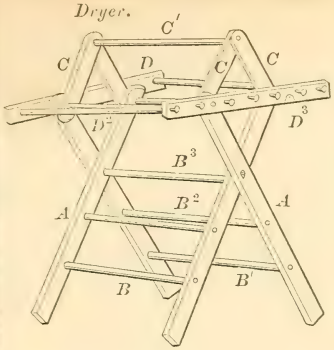

**88119**—Bigler & McCracken—*For Cleaning Stables.*



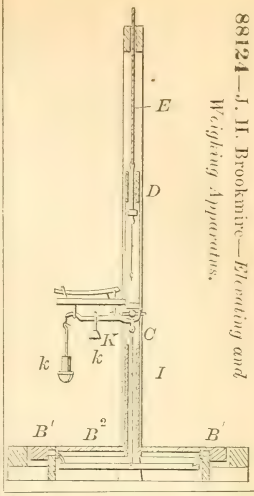
**88122**—Boileau & Mesnier—*Hinge.*



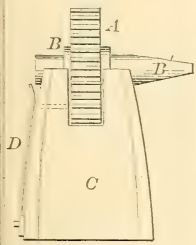

**88123**—R. H. Boughner—*Clothes Dryer.*



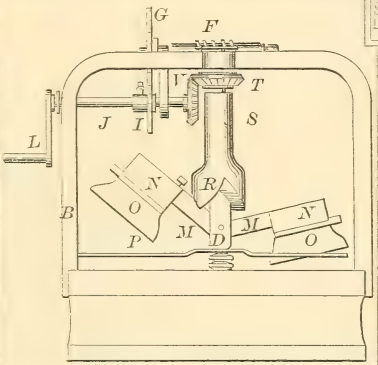

**88124**—J. H. Brookmire—*Elevating and Weighing Apparatus.*



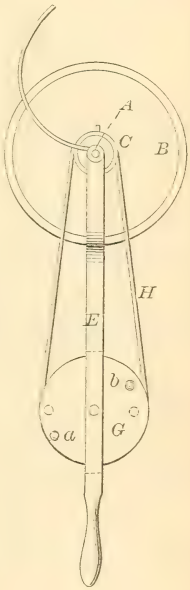

**88125**—G. W. Brown—*Swage.*



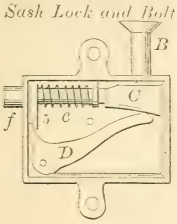

**88126**—C. N. Brumm—*Meat Chopper.*



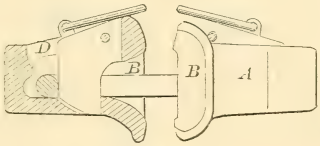

**88127**—R. I. Burbank—*Hay Rake.*



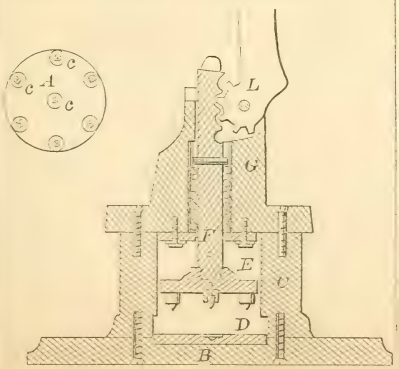

**88129**—L. O. Cameron—*Sash Lock and Bolt.*

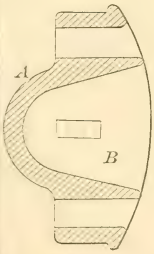



**88130**—Campion & Thomson—*Car Coupling.*



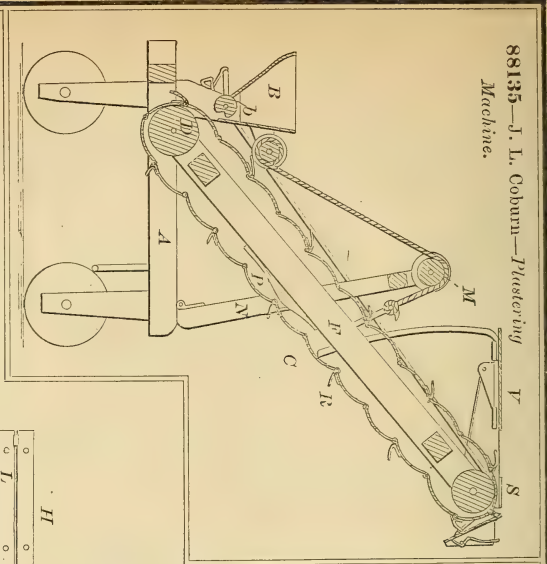

**88128**—R. Cadle—*Blacking Box.*



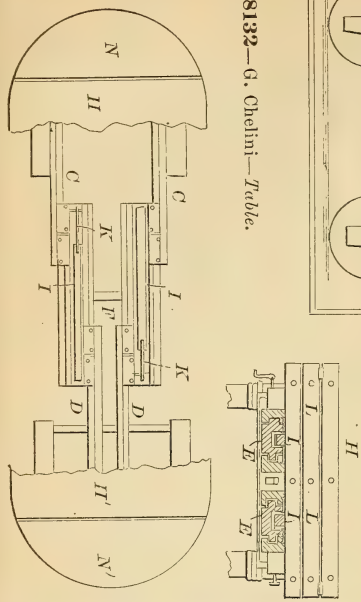




**88131**—M. F. Chandler—*Boot.*

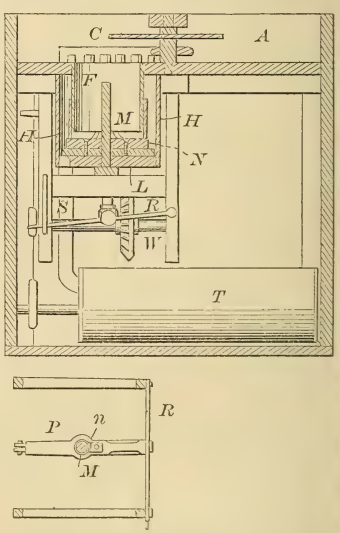
**88135**—J. L. Coburn—*Plastering Machine.*



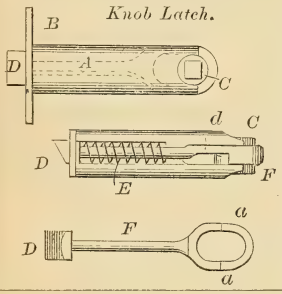

**88132**—G. Chelini—*Table.*



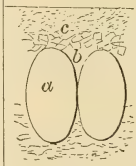

**88137**—J. Cornwell—*Bolt Feeder.*



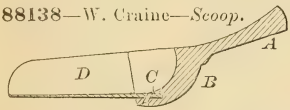

**88133**—A. B. Clemons—*Knob Latch.*



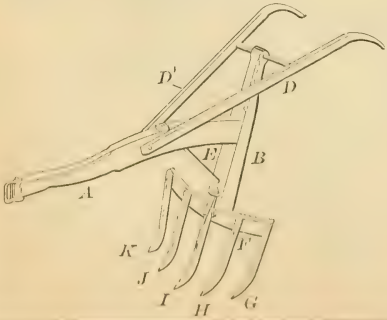

**88139**—J. P. Cranford—*Pavement.*



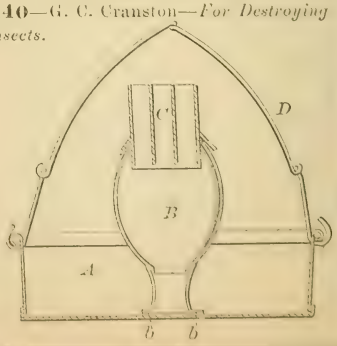

**88138**—W. Craine—*Scoop.*



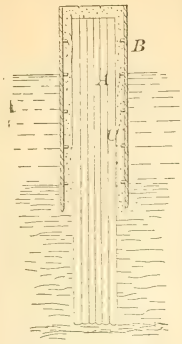

**88136**—A. Connelley—*Cultivator.*



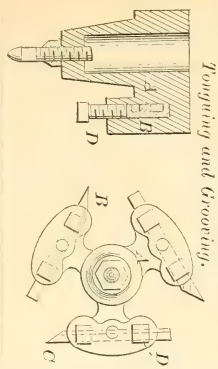

**88140**—G. C. Cranston—*For Destroying Insects.*



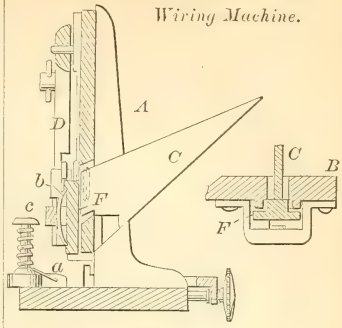
88141—S. B. Cushing—*For Piles.*



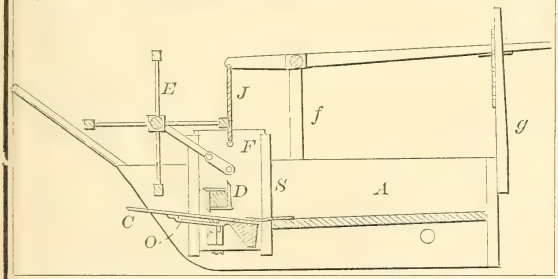
88143—D. C. Dovall—*Cutter for Tonguing and Grooving.*



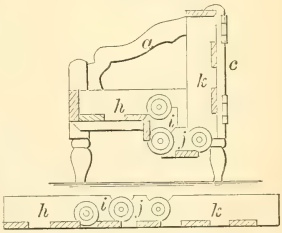
88145—W. F. Dodge—*Blind Wiring Machine.*



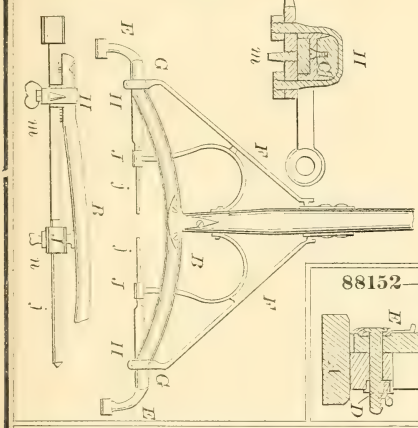
88144—P. Dismukes—*Clover Harvester.*



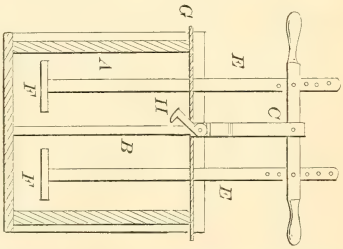
88146—J. Dourson—*Sofa Bedstead.*



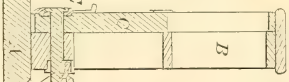
88149—H. F. Edwards—*Carriage Pole Attachment.*



88148—S. D. Edgar—*Churn.*

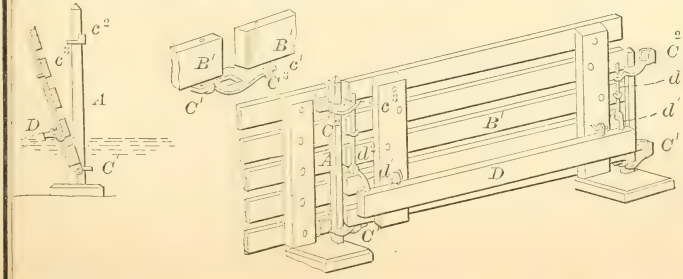


88152—W. C. Fisher—*Shutter Fastening.*

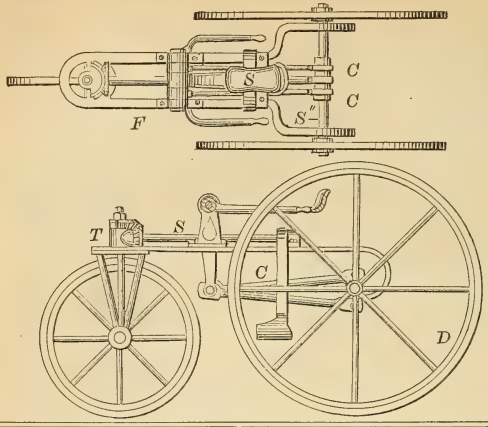


88150—J. Fahrney—*Mop Head.*

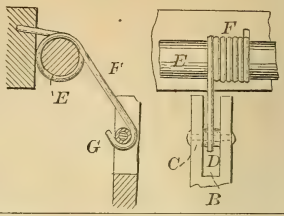
88147—Dowden & Anderson—*Flood Fence.*



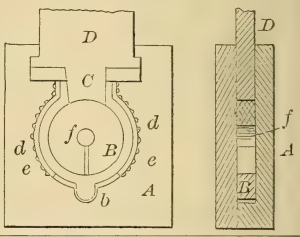
**88151**—H. J. Ferguson—*Velocipede.*



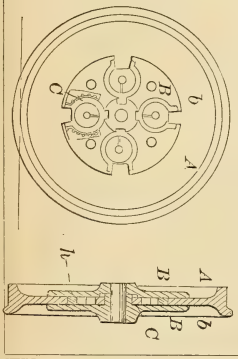

**88153**—M Flanigan—*Spring Bed Bottom.*



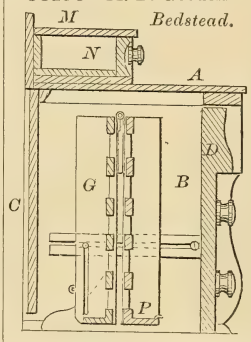

**88155**—A. C. Fletcher—*Car Spring.*



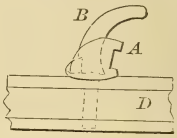

**88154**—A. C. Fletcher—*Car Wheel.*



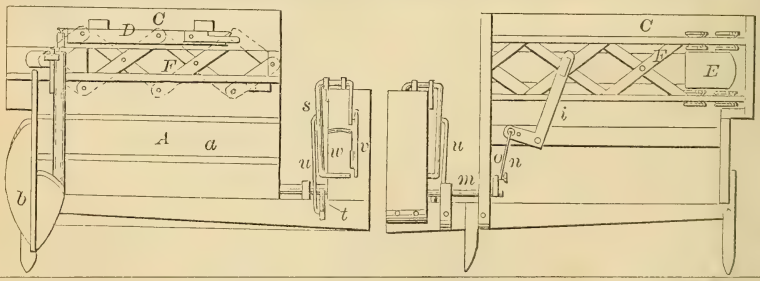

**88158**—M. B. Goodell—*Bedstead.*



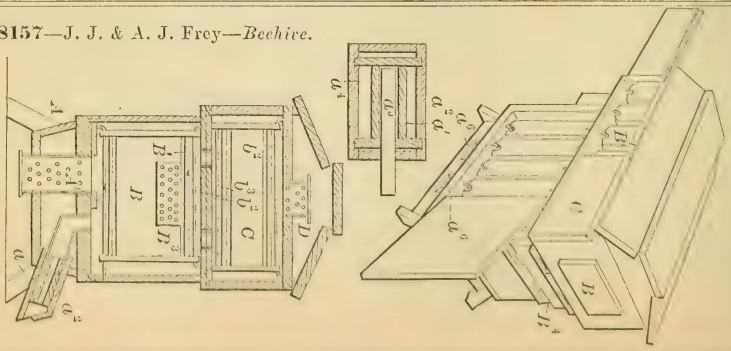

**88159**—D. A. Gorham—*Holdback.*



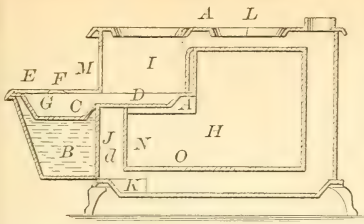

**88156**—J. S. Fowler—*Harvester Rake.*



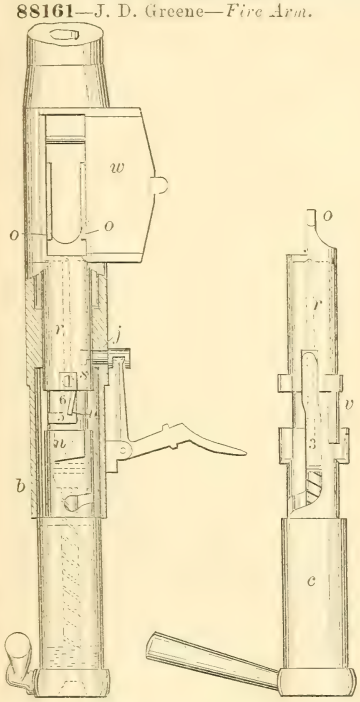

**88157**—J. J. & A. J. Frey—*Beehive.*



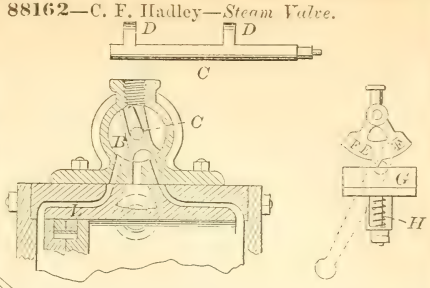
**88160**—C. O. Greene—*Stove.*



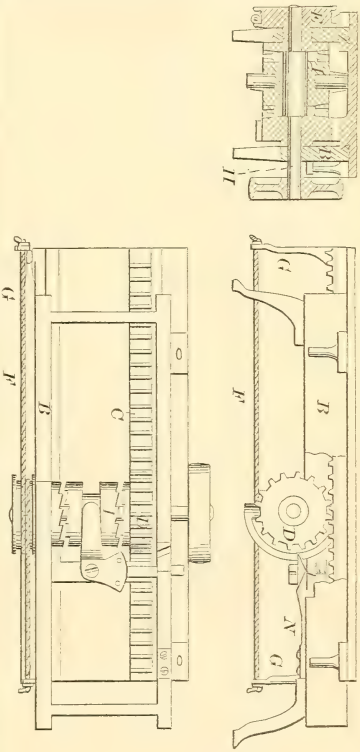

**88161**—J. D. Greene—*Fire Arm.*



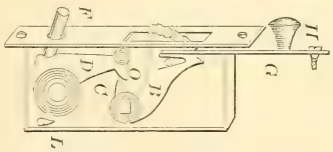

**88162**—C. F. Hadley—*Steam Valve.*



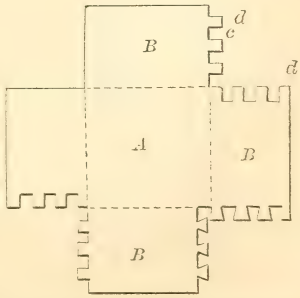

**88163**—C. F. Hadley—*For Converting Motion.*



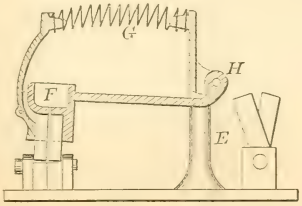

**88164**—J. W. Hansel—*Sash Holder.*



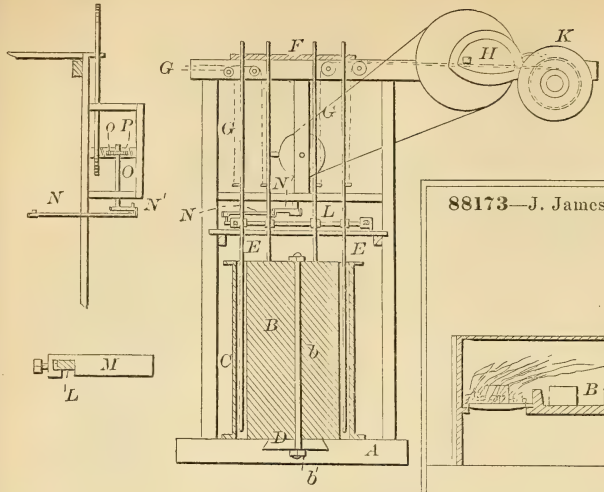

**88165**—A. B. Hendryx—*Paper Box.*



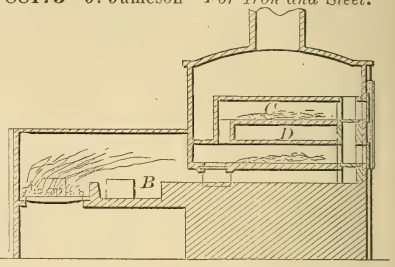

**88167**—D. Hodgkins—*Knife Scourer and Sharpener.*



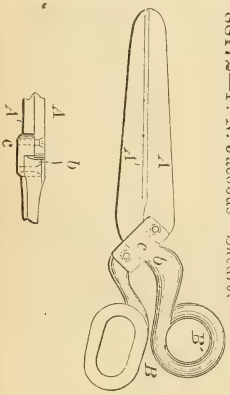
88166—R. Hill—*Clay Moulding Machine.*



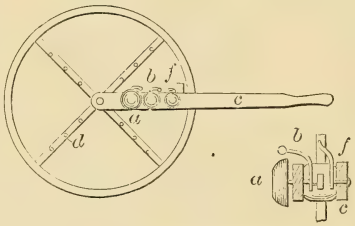

88173—J. Jameson—*For Iron and Steel.*



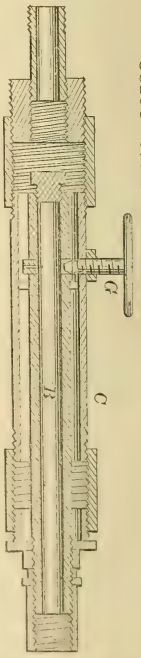

88172—P. N. Jacobus—*Shears.*



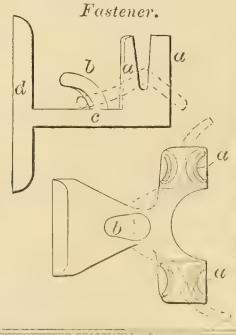

88174—C. C. Johnson—*Toy Hoop.*



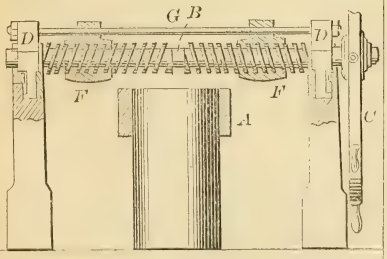

88168—J. Holtz—*Boiler Feeder.*

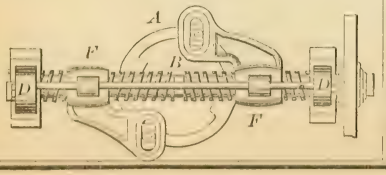



88175—Johnson, Smith & Ingersoll—*Clothes Line Fastener.*

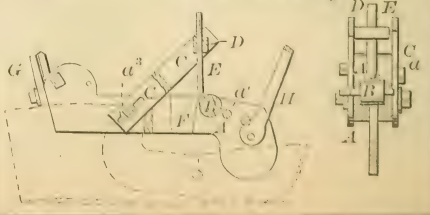



88170—P. H. Jackson—*Steering Apparatus.*

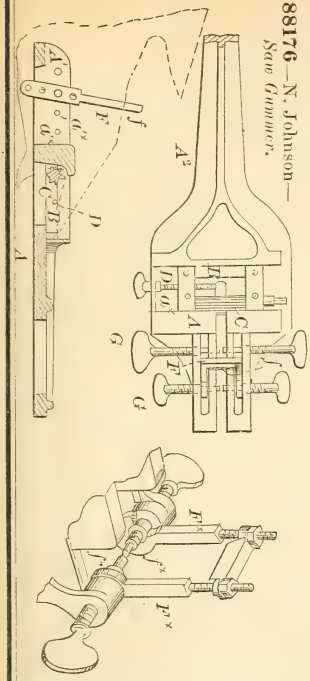


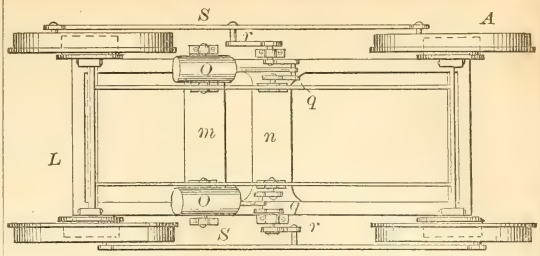

88177—N. Johnson—*Saw Swage.*



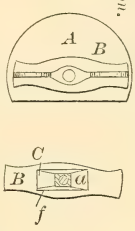
88176—N. Johnson—*Saw Gummer.*



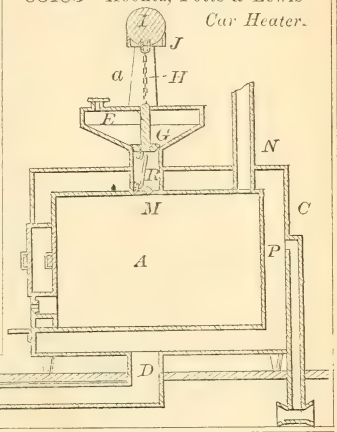
88178—W. J. Johnson—*Locomotive Drive Wheel.*



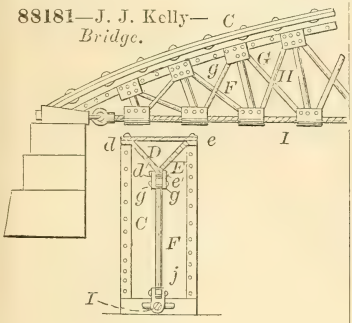
88186—Lincoln & Hubbard—*Door Button.*



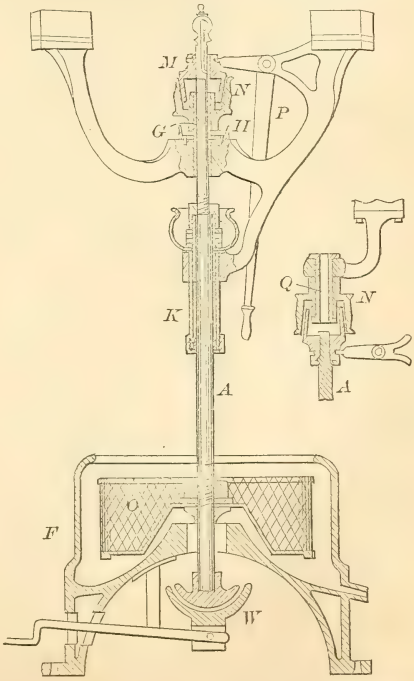
88183—Koontz, Potts & Lewis—*Car Heater.*



88181—J. J. Kelly—*Bridge.*

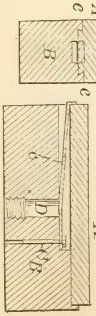


88184—H. W. & R. Lafferty—*Draining Machine.*

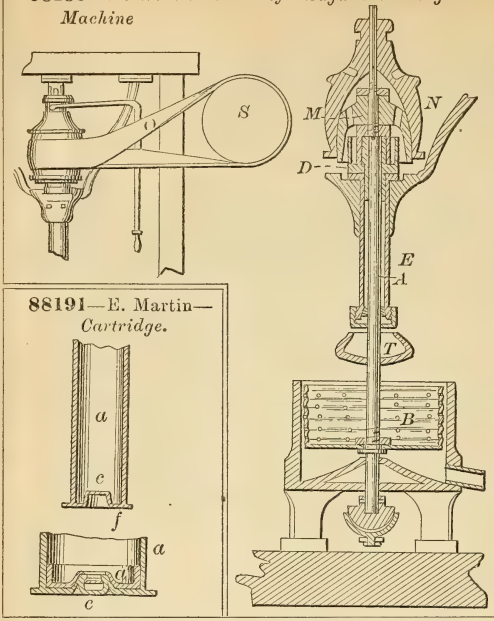


88179—H. L. Judd—*Curtain Fixture.*

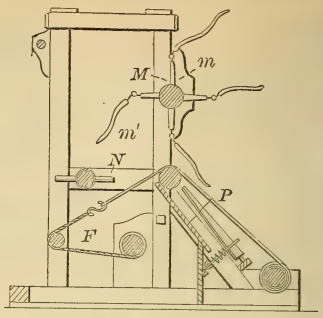
88180—A. N. Kellogg—*Block for Holding Stereotype Plates.*



**88185**—H. W. & R. Lafferty—*Sugar Draining Machine*



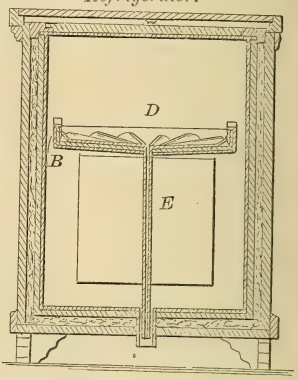

**88188**—T. Luke—*Carpet Cleaning Machine.*



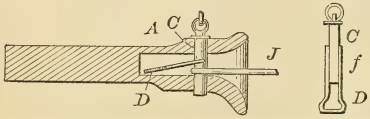

**88191**—E. Martin—*Cartridge.*



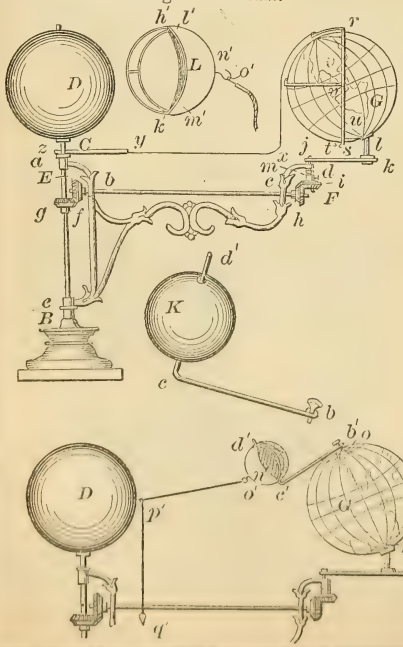

**88190**—Mace & Gwyer—*Refrigerator.*



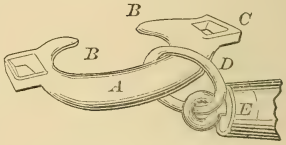

**88189**—I. V. & W. J Lynn—*Car Coupling.*



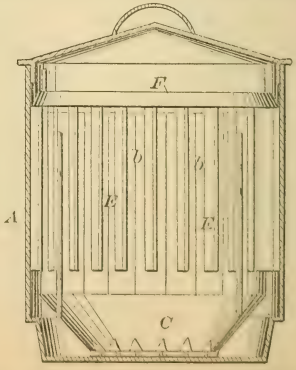

**88187**—M. Long—*Tellurium.*



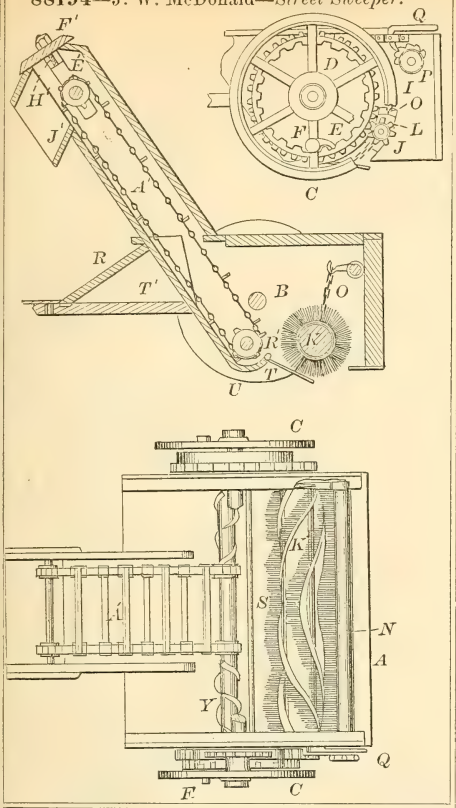

**88192**—J. H. Martin—*Breast Strap Slide.*



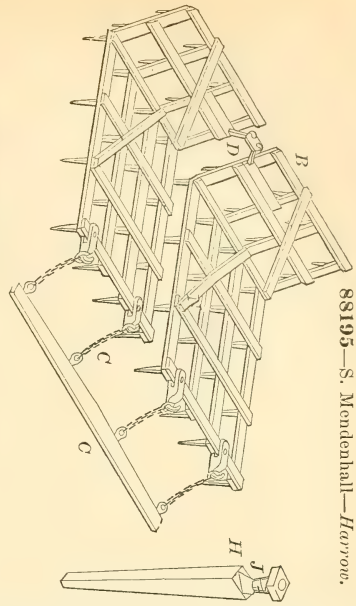

**88193**—A. McDaniel—*Wash Boiler.*



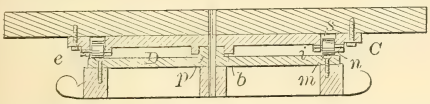
**88194**—J. W. McDonald—*Street Sweeper.*



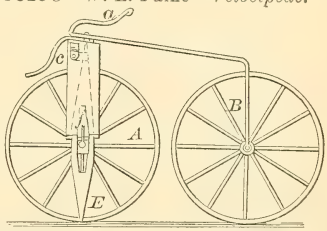

**88195**—S. Mondenhall—*Harrow.*



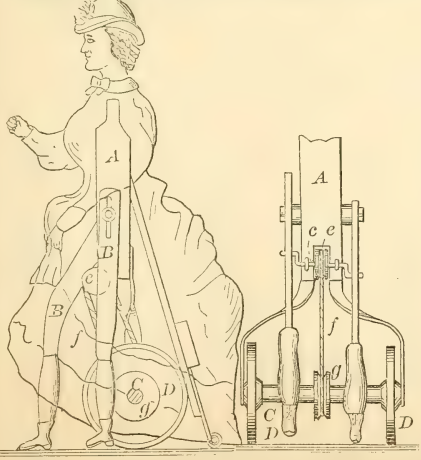

**88196**—W. Munson—*Fifth Wheel.*



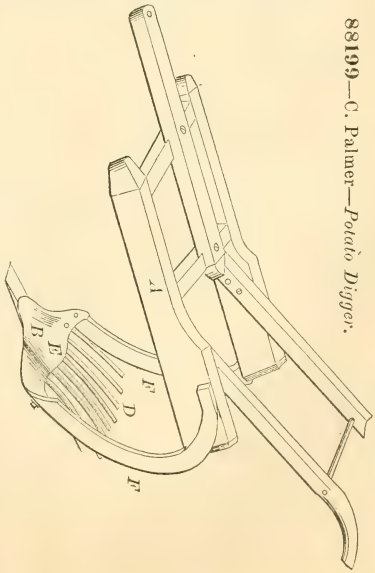

**88198**—W. L. Paine—*Velocipede.*



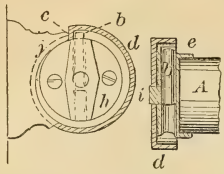

**88197**—A. W. Nicholson—*Walking Doll.*



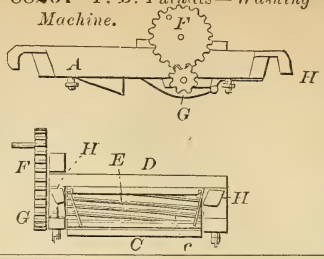

**88199**—C. Palmer—*Potato Digger.*



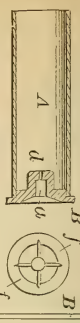
**88200**—I. E. Palmer—*Roller Stop for Window Shades.*



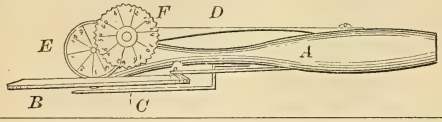

**88201**—F. D. Paradis—*Washing Machine.*



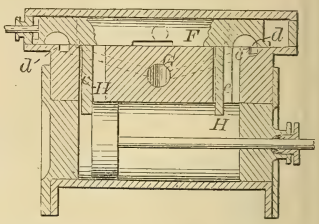

**88202**—W. F. Parker—*Cartridge.*



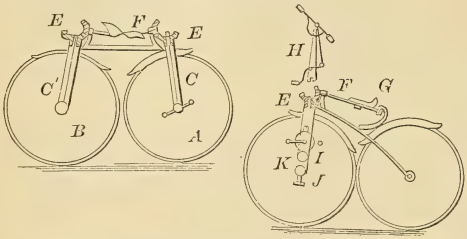

**88203**—Pease & Richards—*Lumber Measure.*



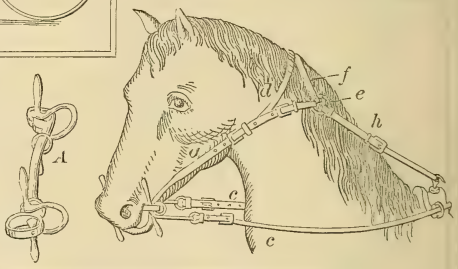

**88204**—H. F. Pease—*Operating Steam Engine Valves.*



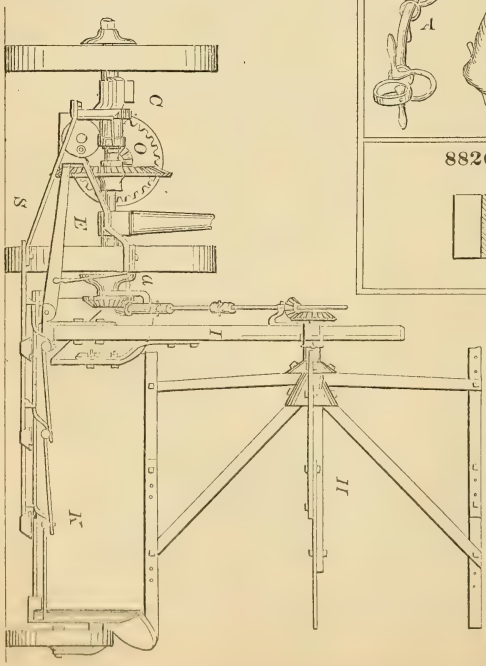

**88205**—R. H. Plass—*Velocipede.*



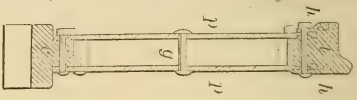

**88210**—J. V. Reardon—*Bridle.*



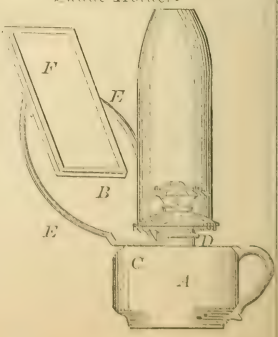

**88209**—A. Rank—*Harvester.*



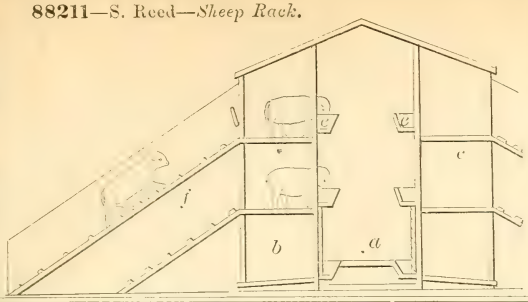

**88207**—Rae & Miller—*Railway Wheel.*



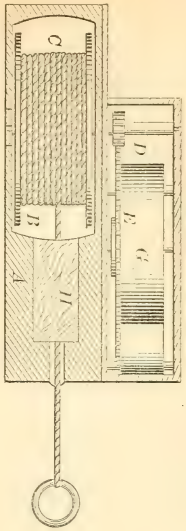

**88206**—J. T. Pope—*Lamp Shade Holder.*



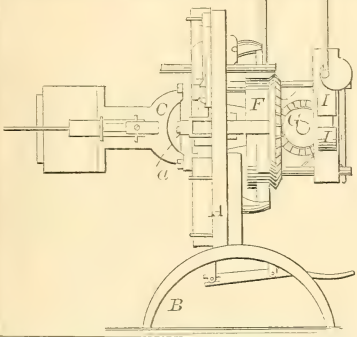
**88211**—S. Reed—*Sheep Rack.*



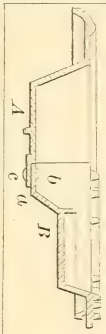

**88212**—J. E. Richardson—*Chalk Line Spool.*



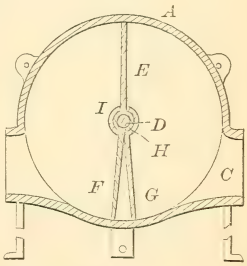

**88214**—J. Root—*Bolt Heading Machine.*

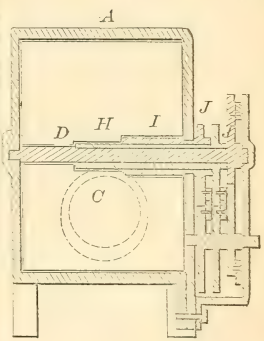



**88213**—J. H. Roeker—*Grate.*

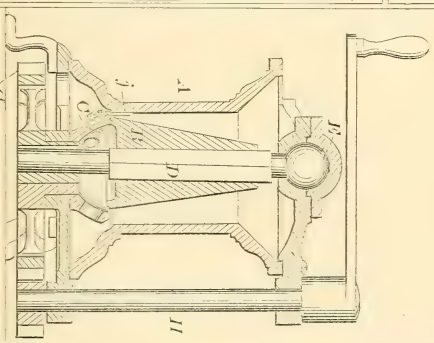



**88215**—S. P. Rugles—*Meter.*

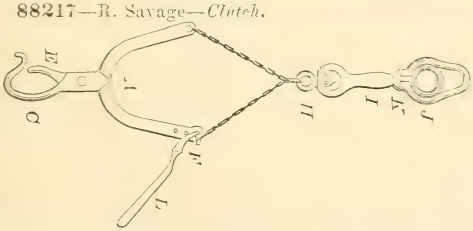


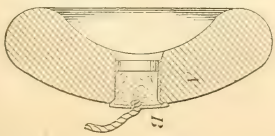

**88216**—J. W. Rutter—*Crushing and Grinding Machine.*



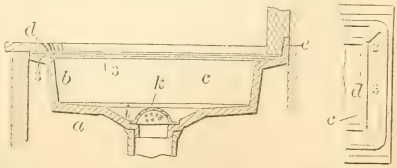

**88217**—R. Savage—*Clutch.*



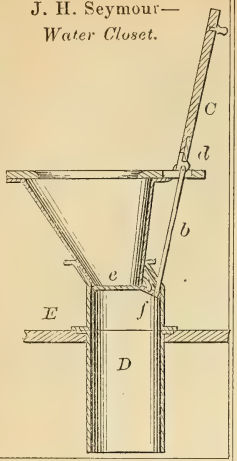

**88218**—E. O. Schartan—*For Evaporating Medicine in Treating Diseases.*



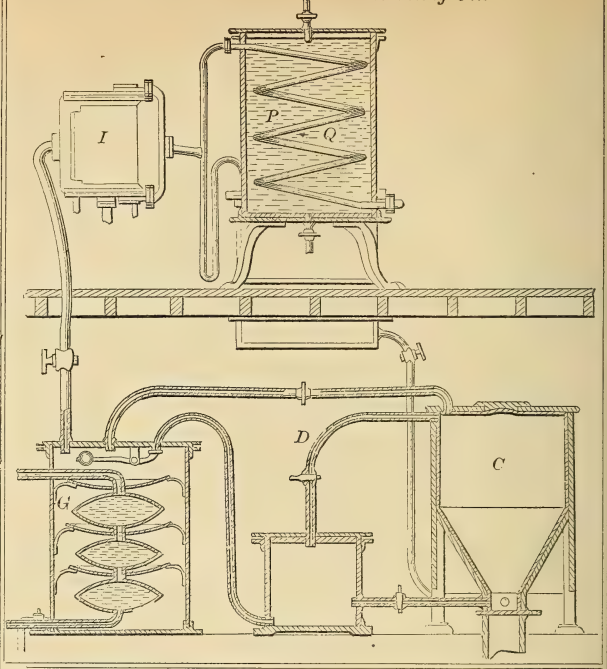

**88219**—Seaman & Banta—*Sink.*



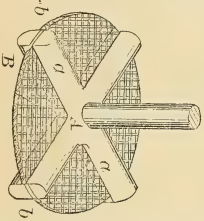
**88220**—J. H. Seymour—*Water Closet.*



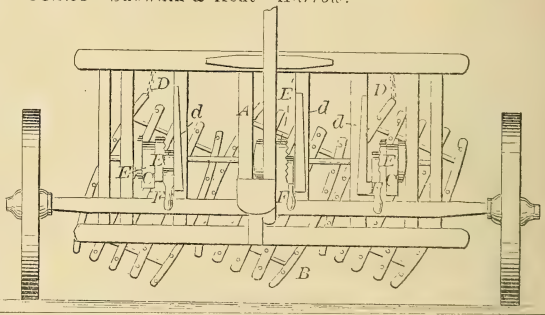

**88222**—Sim & Hutchinson—*For Extracting Oil.*



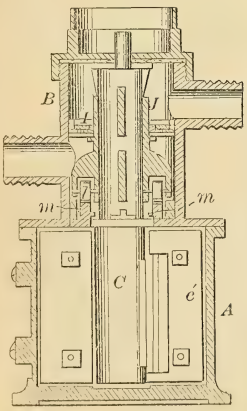

**88226**—Sperry & Hopson—*Churn Dasher.*

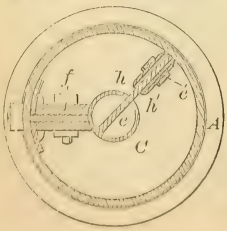



**88225**—Snowdin & Kent—*Harrow.*

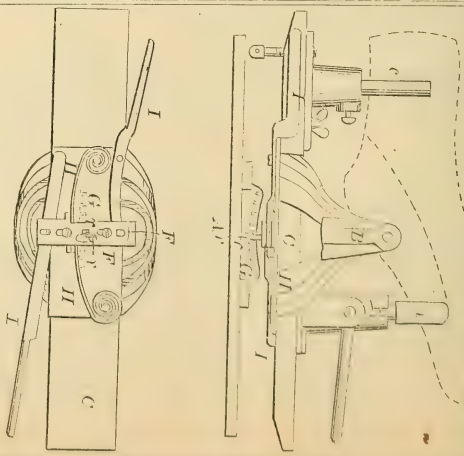



**88221**—G. Sickels—*Water Meter*

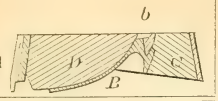


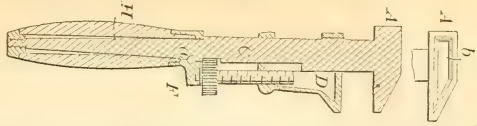

**88227**—M. J. Stein—*Last Holder.*



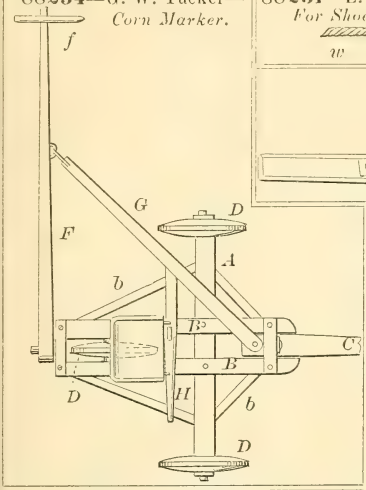
**88229**—L. R. Streeter—*Dentists' Flask.*




**88230**—G. C. Taft—*Wrench.*



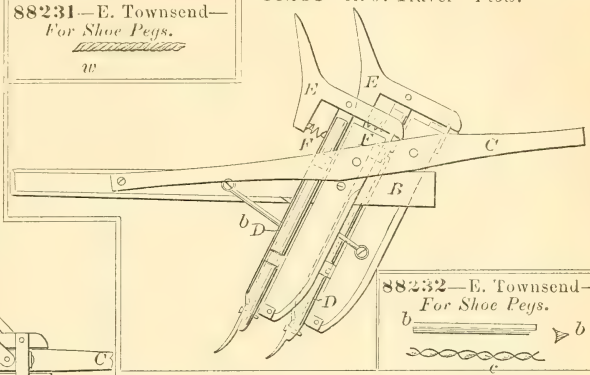

**88234**—G. W. Tucker—*Corn Marker.*




**88231**—E. Townsend—*For Shoe Pegs.*



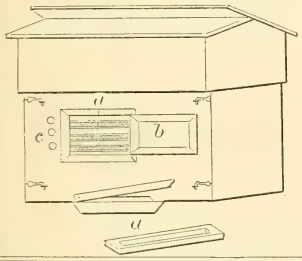

**88233**—A. J. Traver—*Plow.*



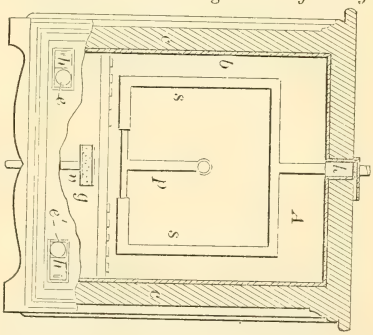

**88232**—E. Townsend—*For Shoe Pegs.*



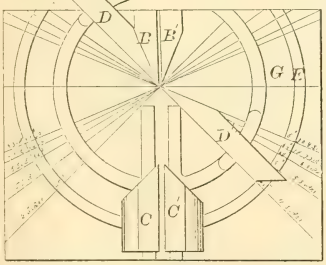

**88235**—G. W. Umbaugh—*Beehive.*



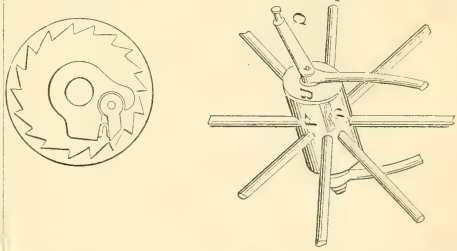

**88237**—O. Vallandigham—*Cigar Dryer.*



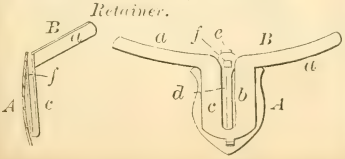

**88236**—C. H Underwood—*Mitre Box.*



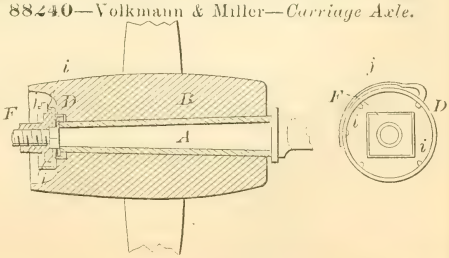

**88238**—W. Van Anden—*Velocipede.*



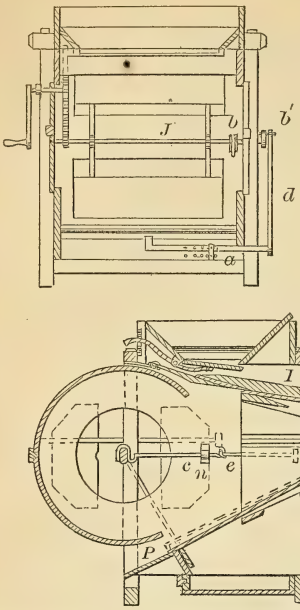

**88239**—J. Varley—*Neck Tie Retainer.*



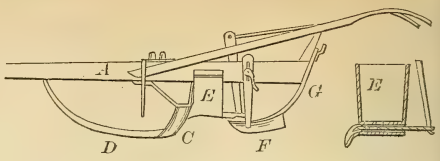

**88240**—Volkmann & Miller—*Carriage Axle.*



88241—W. W. Wait—*Fanning Mill.*

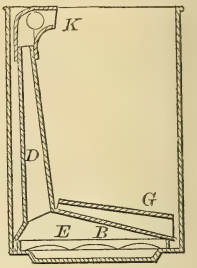



88244—J. P. Ware—*Corn Planter.*

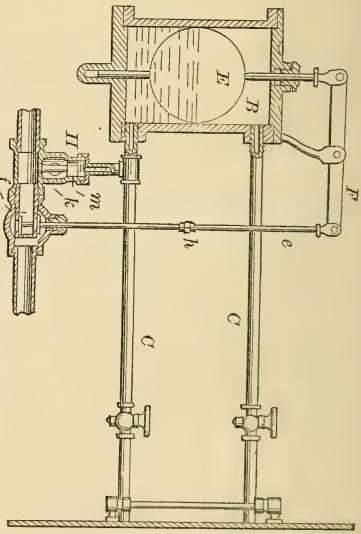



88242—L. Wakefield—*Axle Box.*

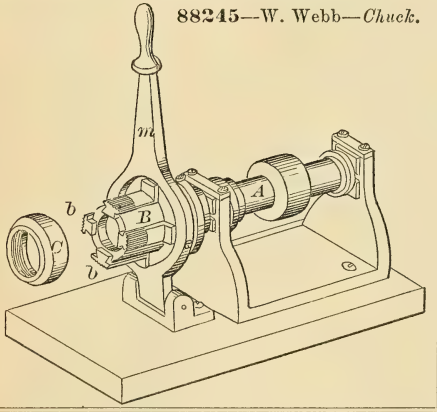
88243—S. J. Wallace—*Wash Boiler.*



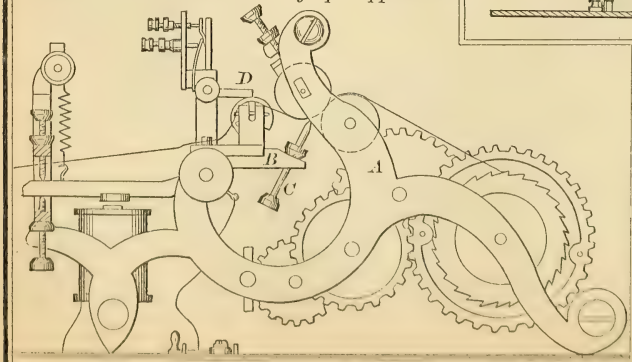

88246—T. B. Webster—*Boiler Feeder.*



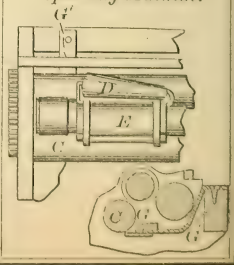

88245—W. Webb—*Chuck.*



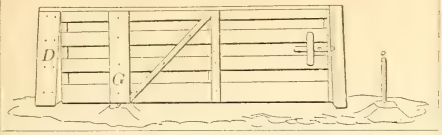

88248—C. Westbrook—*Telegraph Apparatus.*



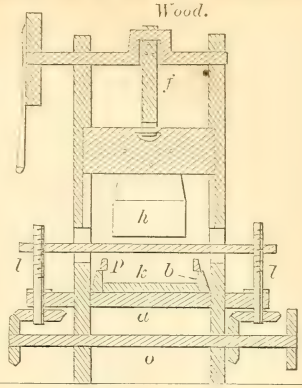

88247—H. Wells—*Spinning Machine.*



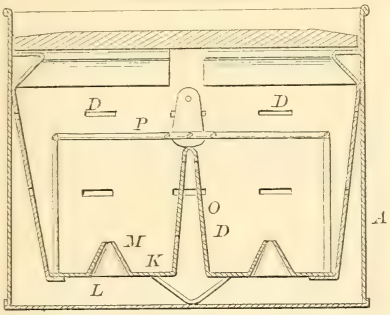
**88249**—S. P. Williams—*Gate.*

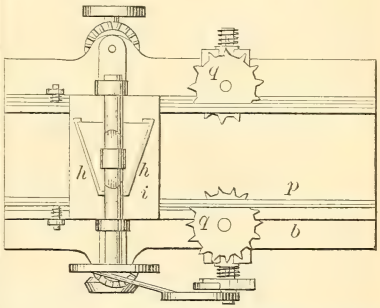



**88250**—W. L. Williams—*For Splitting Wood.*

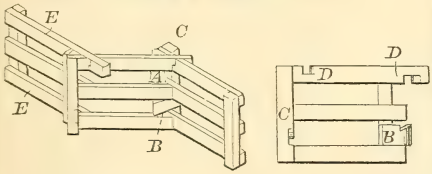



**88251**—G. W. Williamson—*Dish and Clothes Washer.*

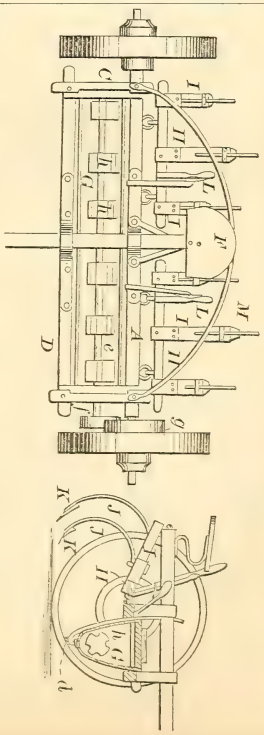


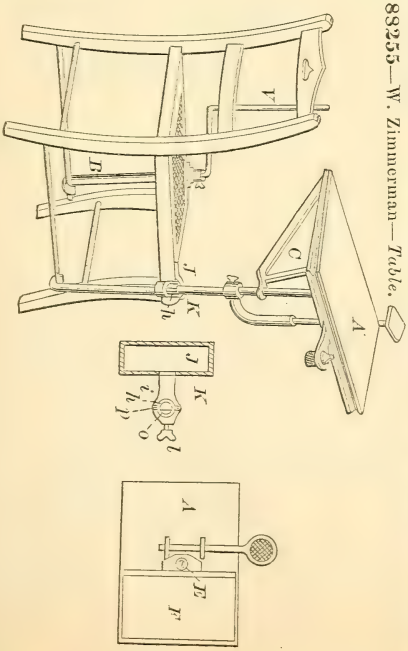

**88252**—Youkey & Rawson—*Fence.*



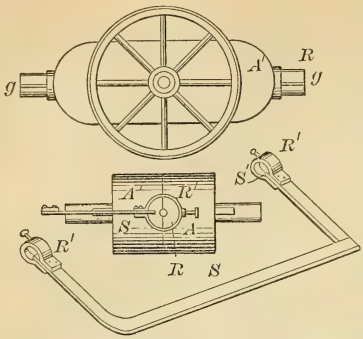

**88253**—M. Woodard—*Sower and Cultivator.*



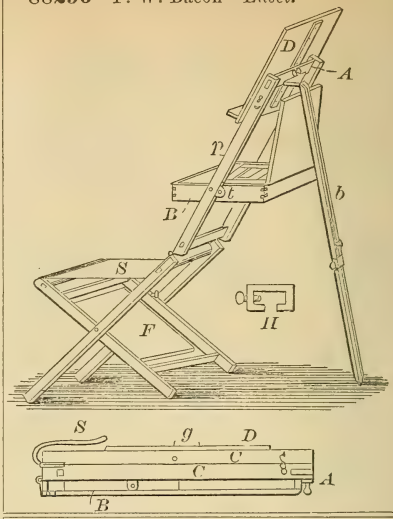

**88255**—W. Zimmerman—*Table.*



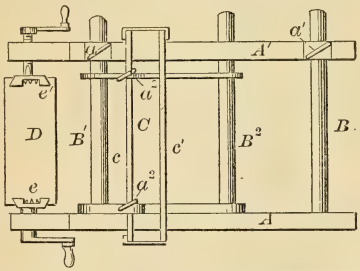
88254—G. W. N. Yost—*Harvester.*



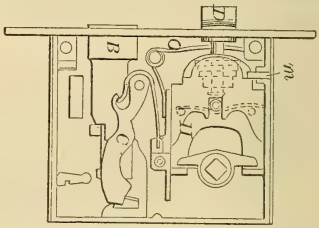

88256—F. W. Bacon—*Easel.*



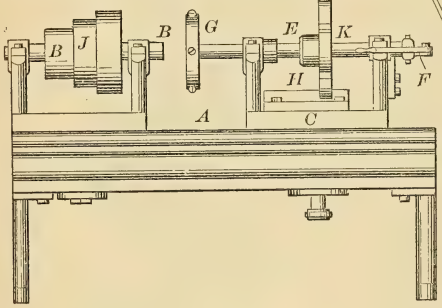

88257—C. F. Hargis—*For Winding Cloth*



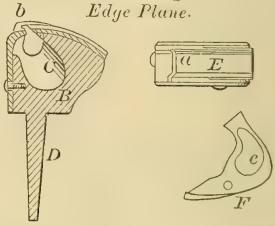

88261—A. Aston—*Knob Latch.*



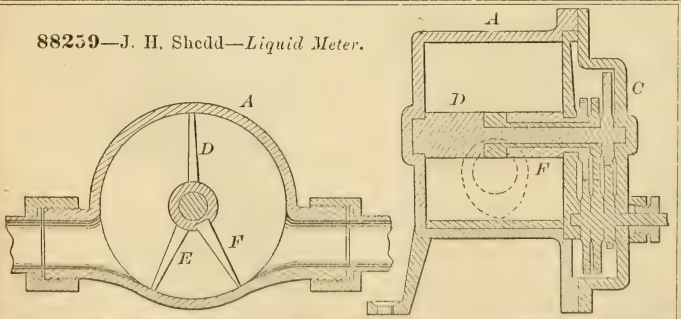

88262—E. A. Bagley—*Screw Machine.*




88264—C. P. Bigelow—*Edge Plane.*

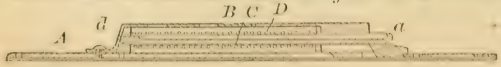



88259—J. H. Shedd—*Liquid Meter.*

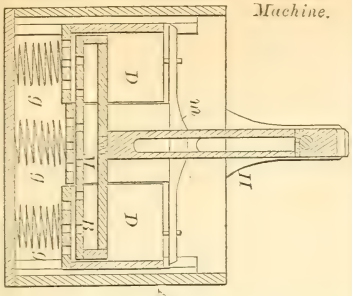



88265—D. Bly—*Mucilage Brush.*

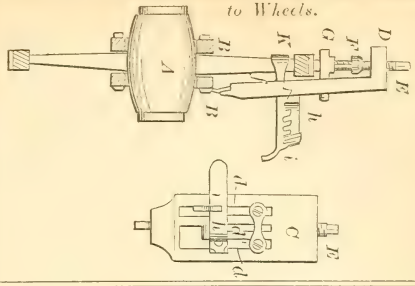
88263—D. Belcher—*For Connecting Horses to Vehicles.*



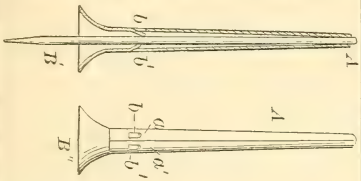
**88266**—J. Brinkerhoff—*Washing Machine.*



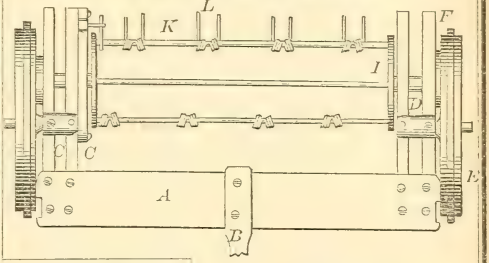
**88267**—F. H. Brinkkotter—*For Fitting Felloes to Wheels.*



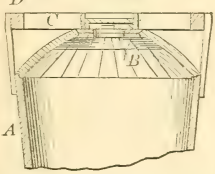
**88268**—W. M. Brisben—*Bobbin.*



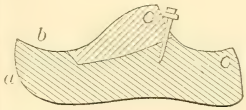
**88270**—H. M. Burdick—*Hay Spreader.*

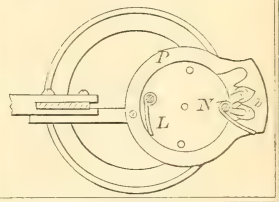


**88272**—T. M. Bush—*Cistern Top.*

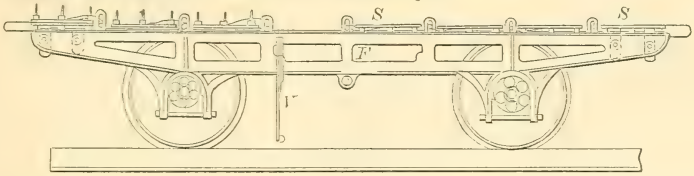


**88269**—T. Bullivant—*Last.*

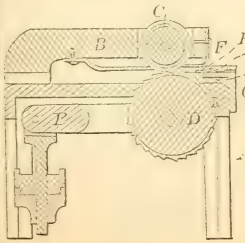




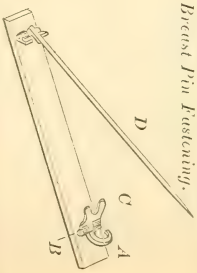
**88274**—C. Chambers, Jr.—*Car for Brick Dryers.*



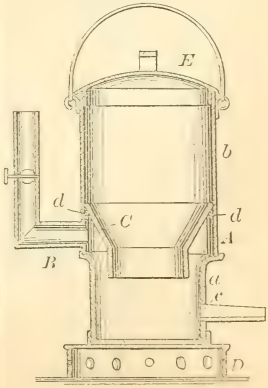
**88276**—J. H. Cole—*For Seam Finishing.*



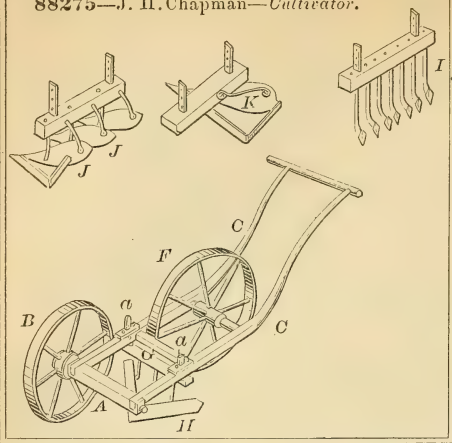
**88273**—Calhoone & Brown—*Breast Pin Fastening.*



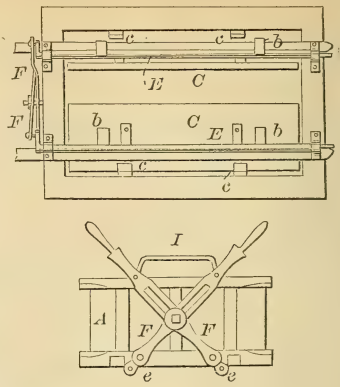
**88271**—G. Burkhardt—*Tinkers' Pot.*



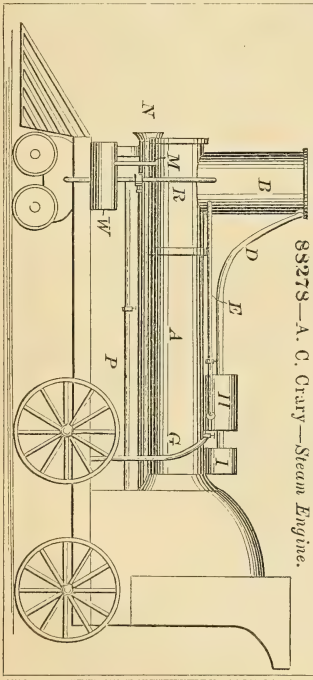
88275—J. H. Chapman—*Cultivator.*



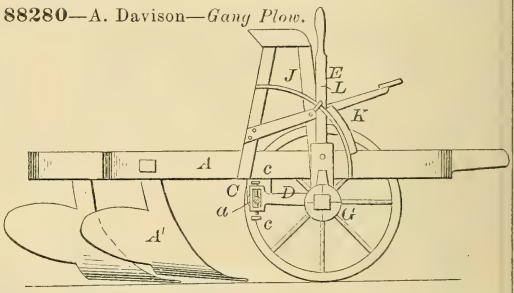

88277—J. Craig—*Dumping Wagon.*

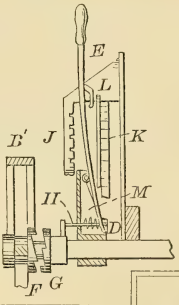


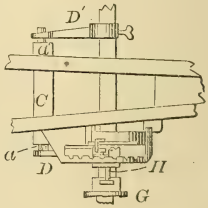

88278—A. C. Crary—*Steam Engine.*



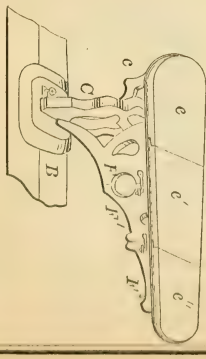

88280—A. Davison—*Gang Plow.*



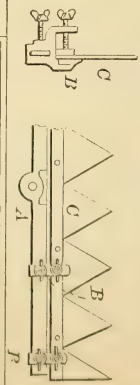



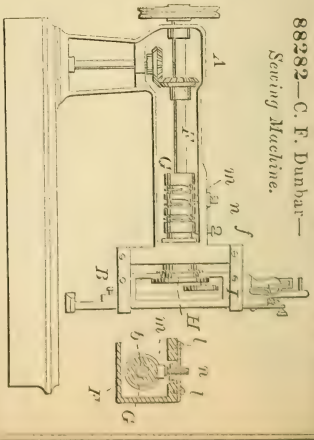

88281—H. T. De Montigny—*Ironing Table.*



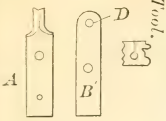

88279—M. C. Cronk—*Clamp Bar.*



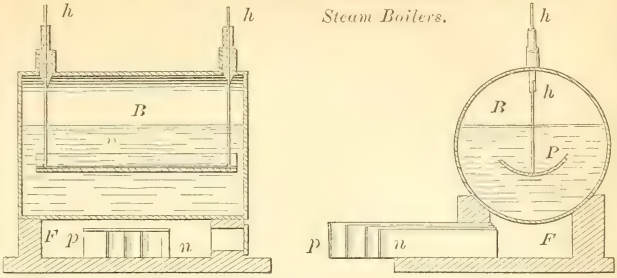

88282—C. F. Dunbar—*Sewing Machine.*



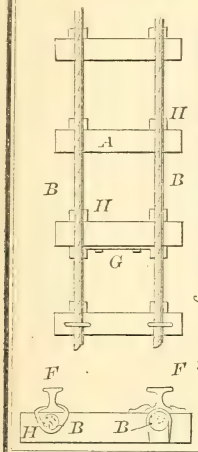
88283—G. D. Edmands—*Channeling Tool.*



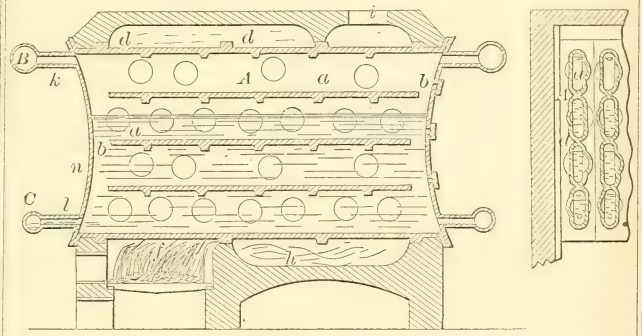

88285—M. G. Farmer—*Application of an Electrical Current to Steam Boilers.*



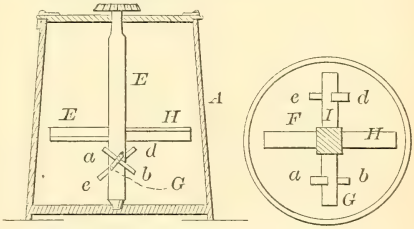

88281—M. B. Edson—*Railway Track.*



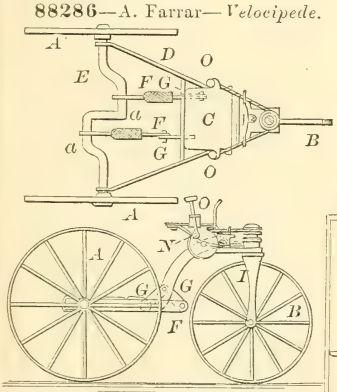

88288—A. C. Fletcher—*Steam Generator.*



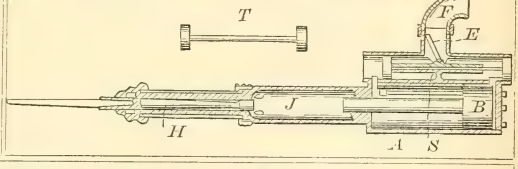

88289—J. Geiger—*Churn.*



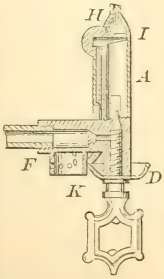

88286—A. Farrar—*Velocipede.*



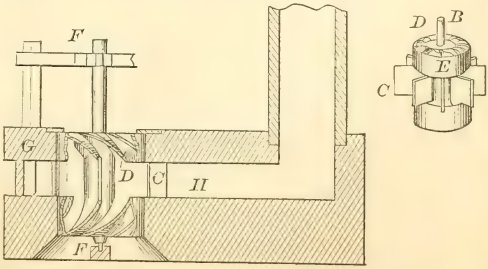

88290—G. F. Green—*Tooth Mallet.*



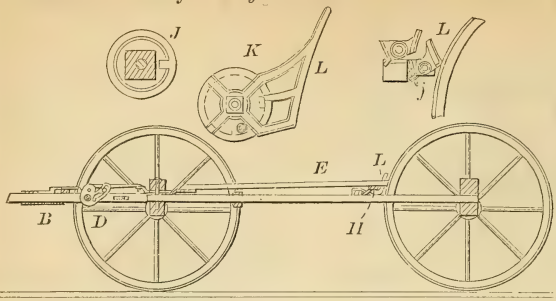

88287—L. Fischer—*Vapor Burner.*



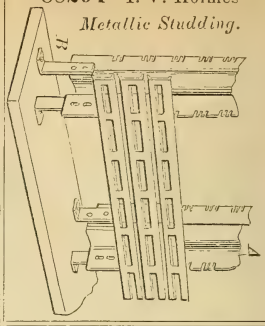

88292—O. L. Hart—*Water Wheel.*



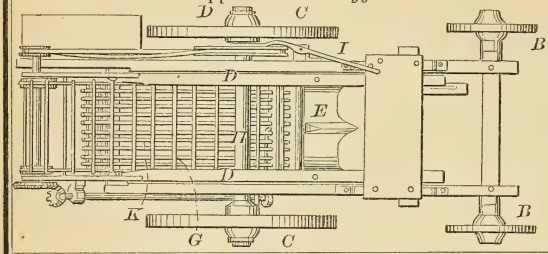
88293—D. Healy—*Wagon Brake.*



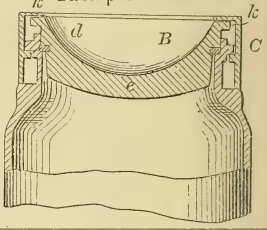

88294—I. V. Holmes—*Metallic Studding.*



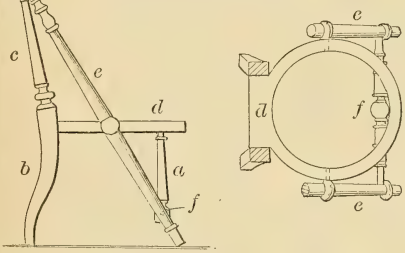

88295—J. R. Hopper—*Potato Digger.*



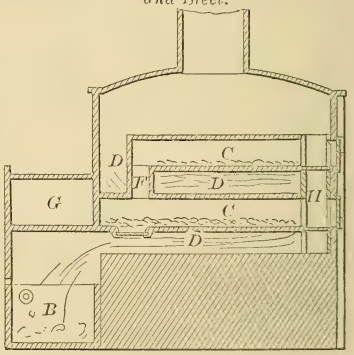

88296—Hughes Shaffer & Thompson—*Fruit Jar.*



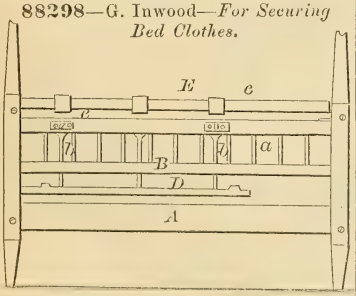

88297—G. Hunzinger—*Chair.*



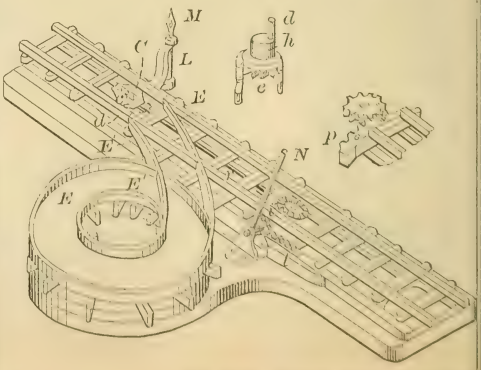

88299—J. Jameson—*For Making Iron and Steel.*



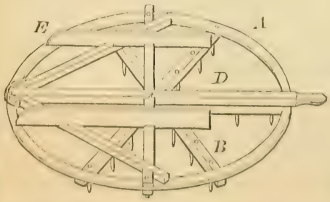

88298—G. Inwood—*For Securing Bed Clothes.*



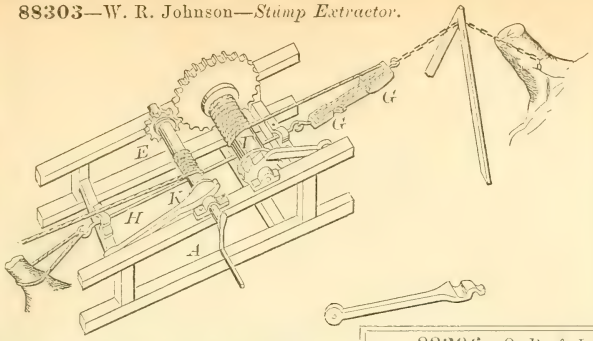

88302—Johnson & Stiles—*Railway Switch.*



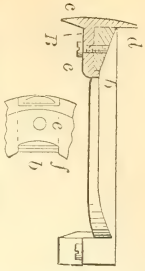

88301—J. D. Johnson—*Harrow.*



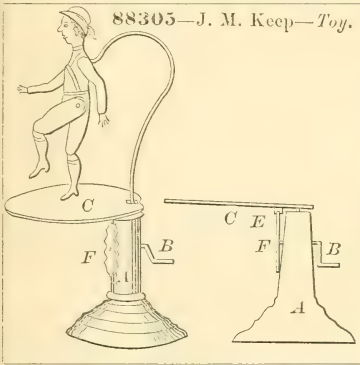
88303—W. R. Johnson—*Stump Extractor.*



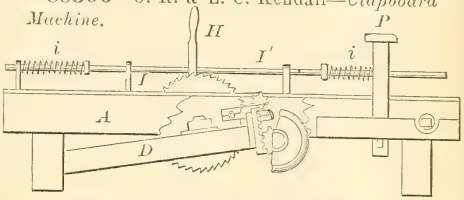

88304—J. Jovey—*Horse Shoe.*



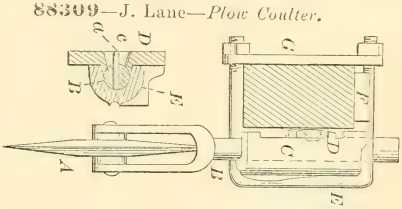

88305—J. M. Keep—*Toy.*




88306—O. R. & L. C. Kendall—*Clapboard Machine.*

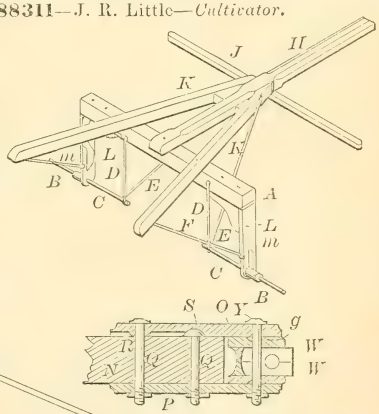



88309—J. Lane—*Plow Coulter.*

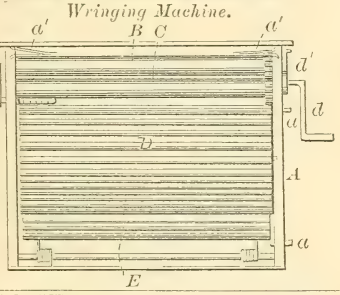



88307—Koeb & Houcke—*Belt Fastening.*

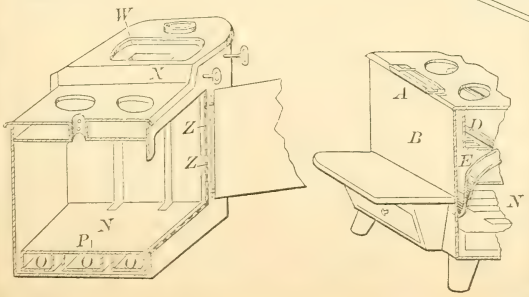
88311—J. R. Little—*Cultivator.*



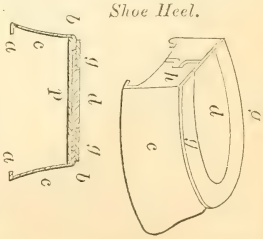

88308—J. Lamb—*Washing and Wringing Machine.*



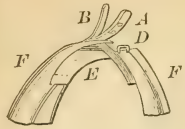

88313—Marvin & Vose—*Stove.*



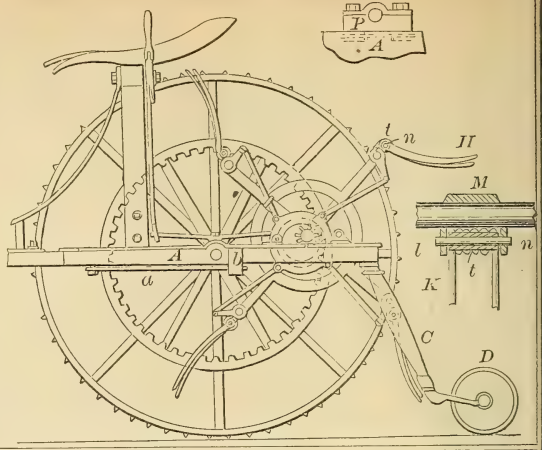

88310—R. Lapham—*Boot and Shoe Heel.*



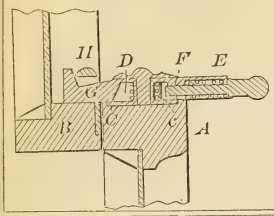
88312—J. C. Mahaffey—*Horse Collar.*



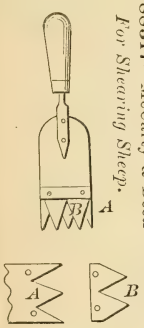

88314—N. F. Mathewson—*Hay Spreader.*



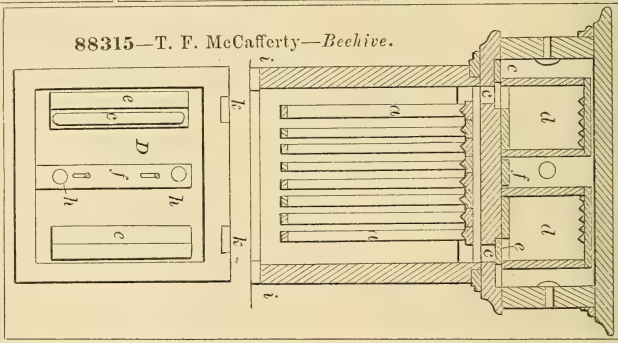

88318—McGregor & Voll—*Sash Lock.*



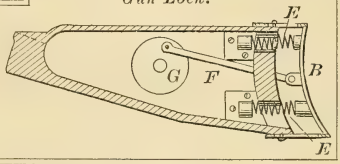

88317—McCarty & Beck—*For Shearing Sheep.*



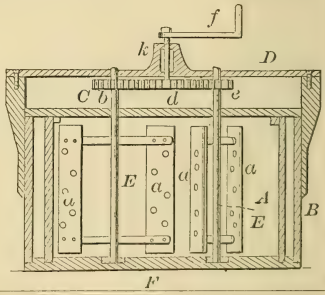

88315—T. F. McCafferty—*Beehive.*



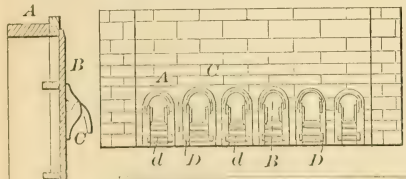

88319—J. C. Miller—*Gun Lock.*



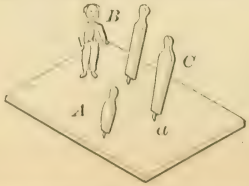

88320—M. B. Miller—*Churn.*



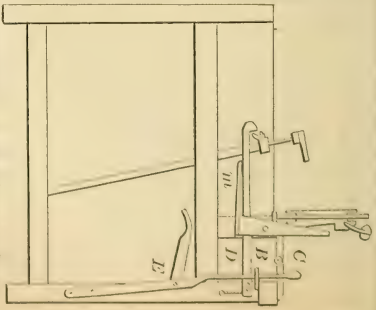

88316—J. M. McCarthy—*Brick Kiln.*



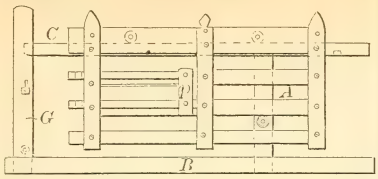

88321—S. F. Mills—*For Exhibiting Card Pictures.*



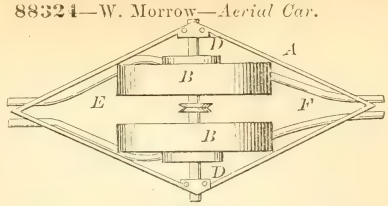

88322—G. E. Milroy—*Loom.*



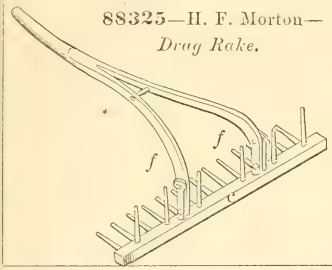
**88323**—A. T. Morris—*Gate.*



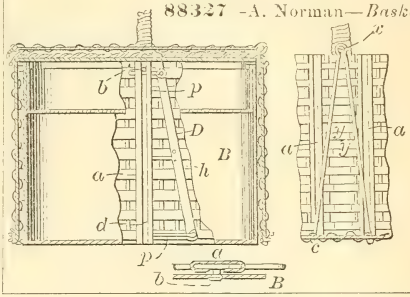

**88324**—W. Morrow—*Aerial Car.*



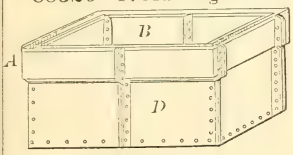

**88325**—H. F. Morton—*Drag Rake.*




**88327**—A. Norman—*Basket.*

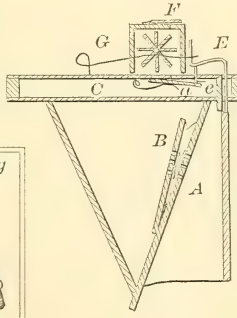



**88326**—P. Munzinger—

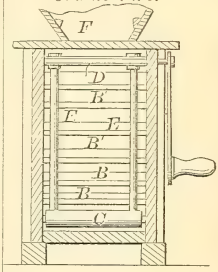



*Gas Purifier.*

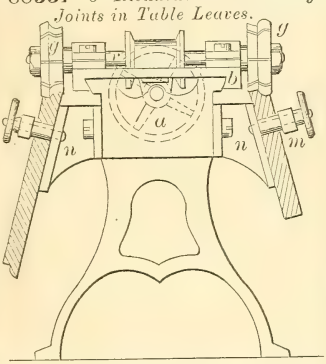
**88328**—I. T. Packard—*For Musical Instruments.*



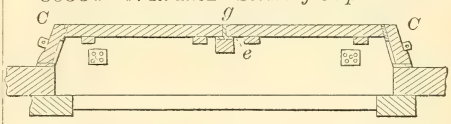

**88329**—T. C. Purington—*Grape Crusher, &c.*

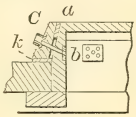



**88331**—J Richards—*For Making Joints in Table Leaves.*

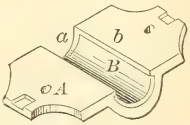



**88330**—J. R. Rich—*Securing Ships' Hatches.*

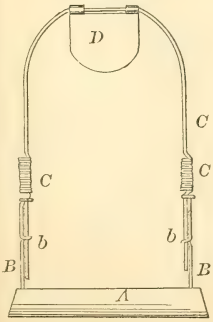


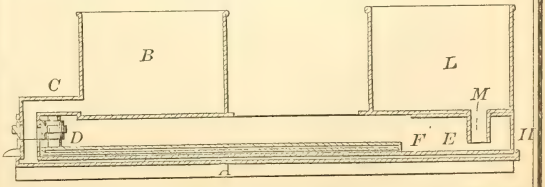

**88333**—E. W. Skinner—*Journal Box.*



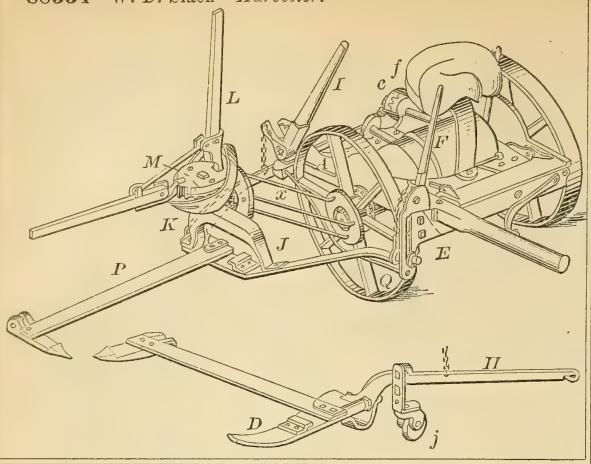

**88335**—F. W. Smith, Jr.—*Croquet Wicket.*



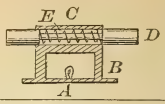

**88332**—C. L. Sabin—*Milk Cooler.*



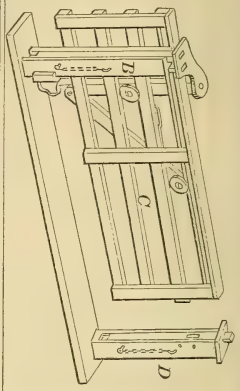
**88334**—W. D. Slack—*Harvester.*



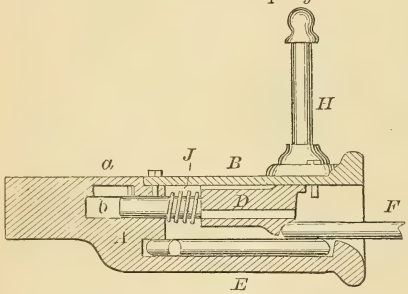

**88338**—P. C. Smith—*Watch Chain.*



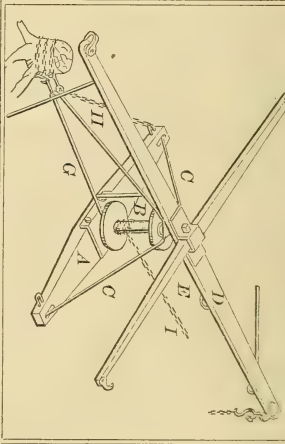

**88339**—R. M. Smith—*Farm Gate.*



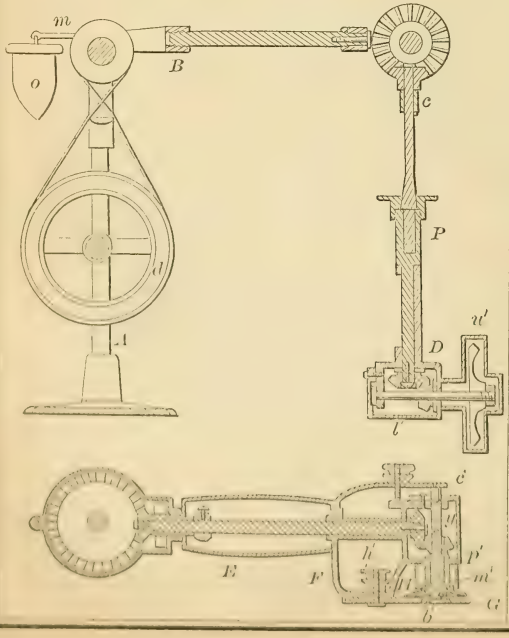

**88337**—O. L. Smith—*Car Coupling.*



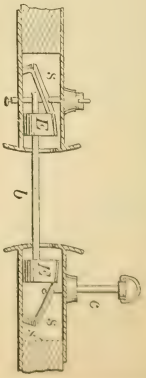

**88336**—H. Smith, 3d—*Stump Extractor.*



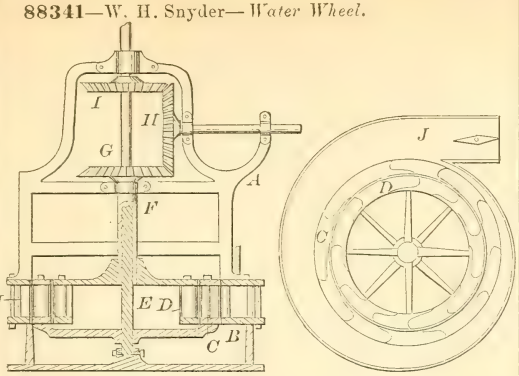

**88340**—Smith & Priest—*Animal Shearing Machine.*



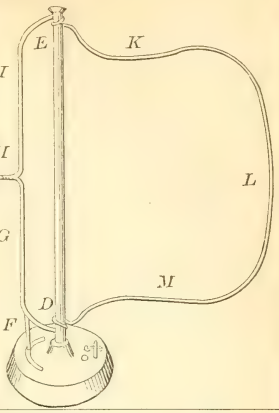

**88342**—H. Soggs—*Car Coupling.*



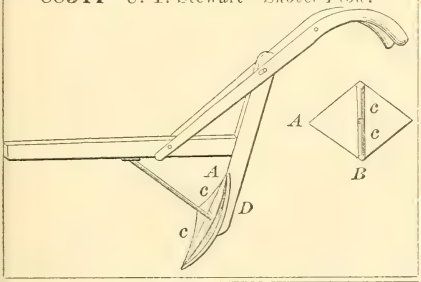
**88341**—W. H. Snyder—*Water Wheel.*



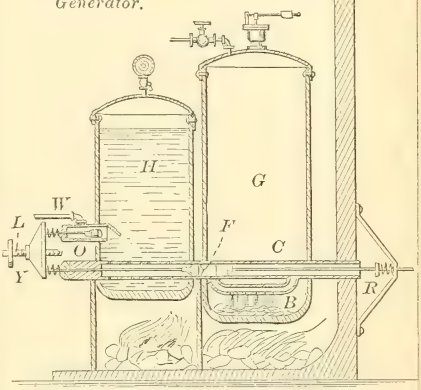

**88343**—G. C. Steinhauer—*Fan.*



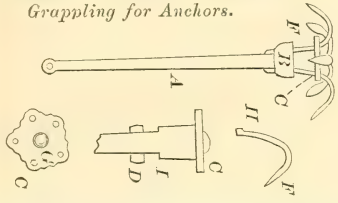

**88344**—U. T. Stewart—*Shovel Plow.*



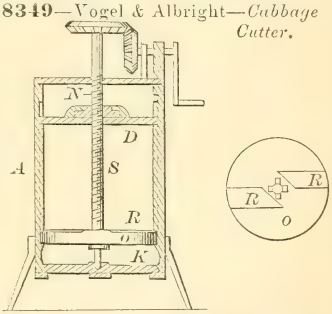

**88345**—J. Tiffany—*Steam Generator.*



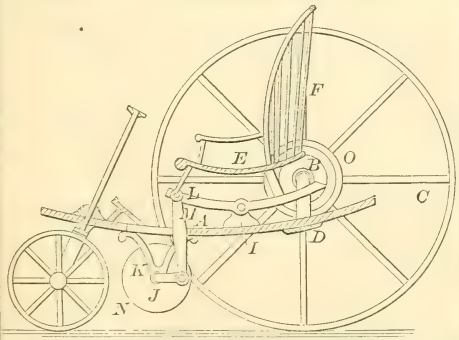

**88346**—A. S. & T. J. Trafton—*Grappling for Anchors.*



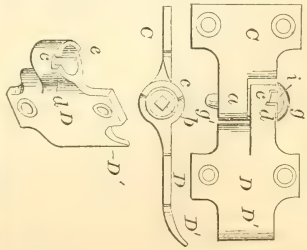

**88349**—Vogel & Albright—*Cabbage Cutter.*




**88347**—J. A. Vander Waag—*Velocipede.*

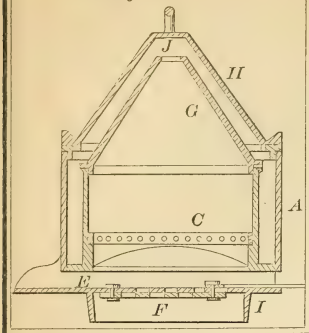



**88351**—F. H. Walker—*Hinge.*

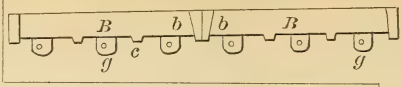


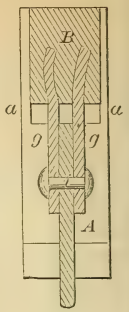

**88350**—D. G. Walker—*Weather Strip.*

**88352**—R. H. Waldron—*Cooking Furnace.*

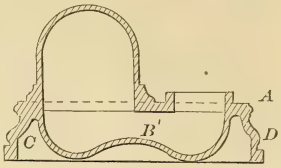



**88355**—J. Yocom, Jr.—*Grate Bar.*

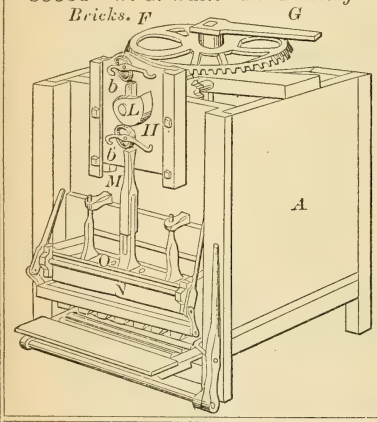


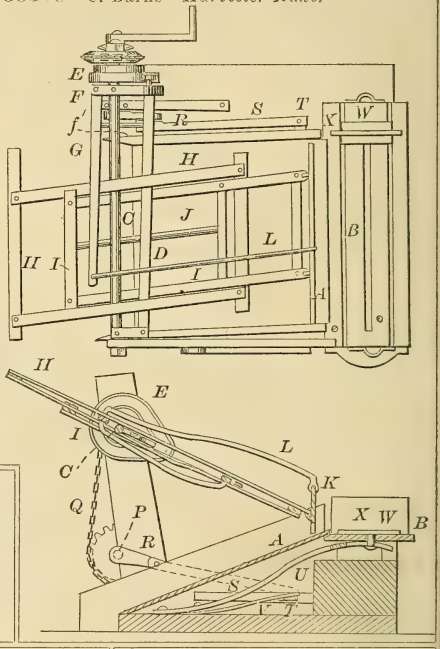

**88354**—H. Whitney—*Inkstand.*



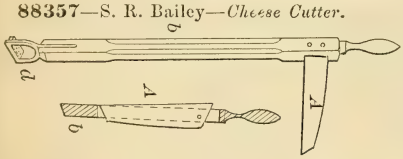

**88353**—W. G. White—*For Pressing Bricks.*



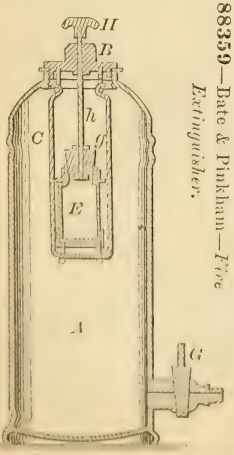

**88358**—C. Barns—*Harvester Rake.*



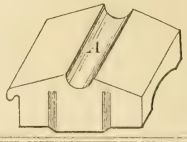

**88357**—S. R. Bailey—*Cheese Cutter.*



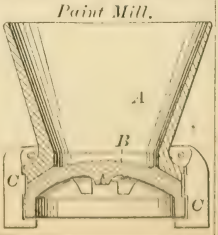

**88359**—Bate & Pinkham—*Fire Extinguisher.*



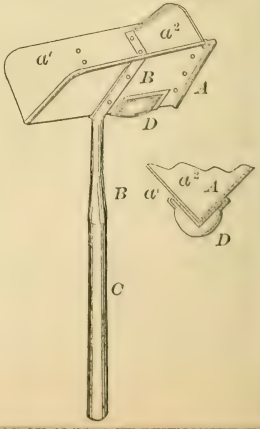

**88356**—A. B. Allen—*Axle Box Bearing.*



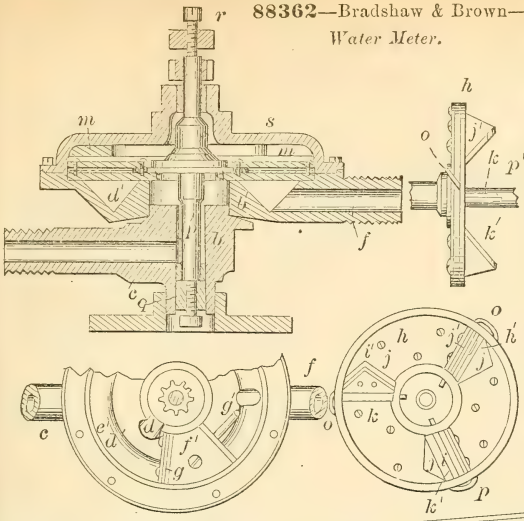

**88360**—J A. Berrill—*Paint Mill.*



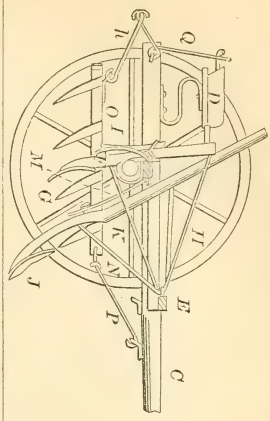

**88361**—Black, Hinkle & White—*Brick and Mortar Hod.*



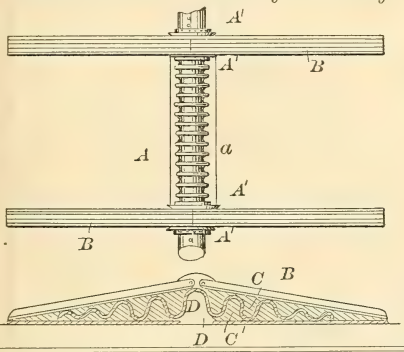
88362—Bradshaw & Brown—*Water Meter.*



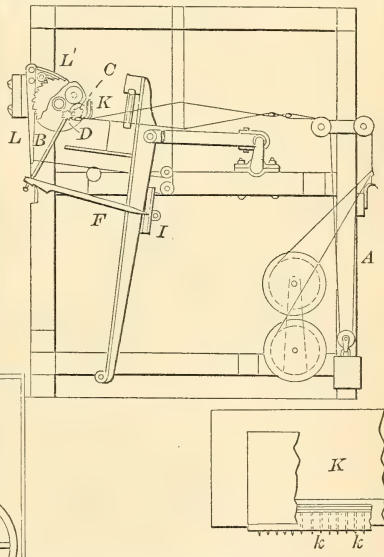
88363—G. W. Bressler—*Harrow and Cultivator.*



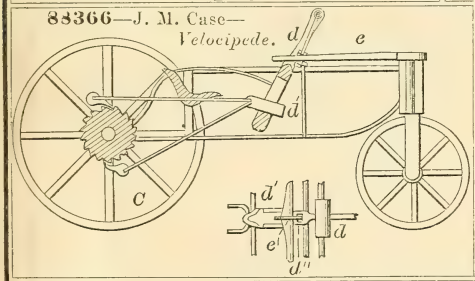
88364—J. Burson—*Railway Hose Bridge.*



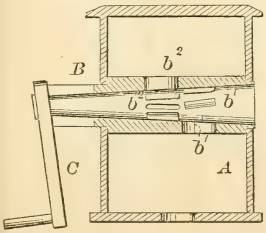
88365—H. Carstaedt—*Loom.*



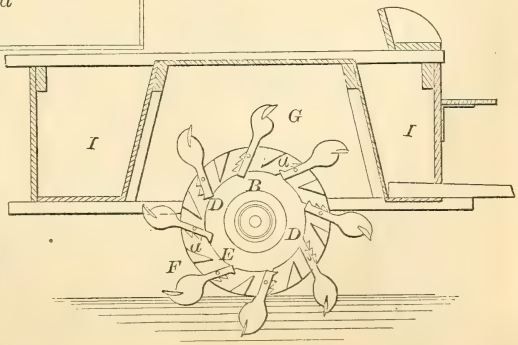
88366—J. M. Case—*Velocipede.*



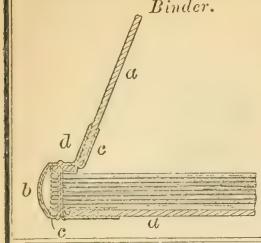
88367—S. S. Cole—*Corn Sheller.*



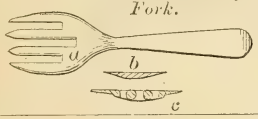
88368—F. C. Cone—*Spading Machine.*



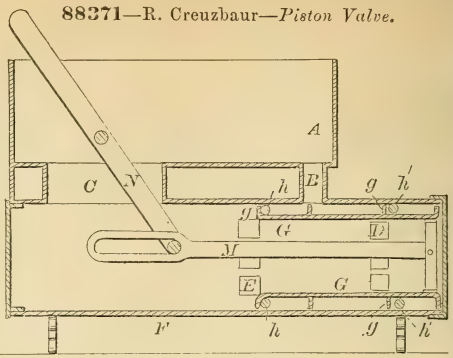
88369—L. B. Covert—*Music Binder.*



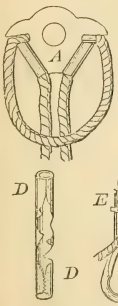

88370—A. W. Cox—*Knife and Fork.*



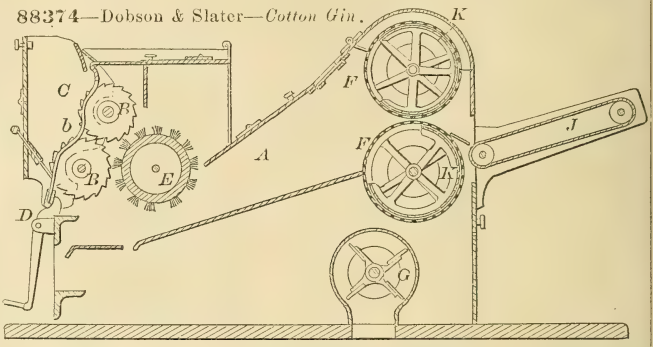

88371—R. Creuzbaur—*Piston Valve.*



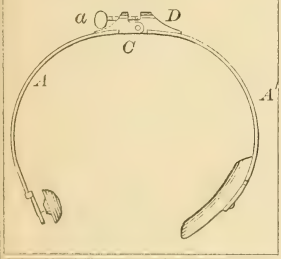

88372—R. d'Heureuse—*For Adjusting Cords for Pictures, &c.*




88374—Dobson & Slater—*Cotton Gin.*

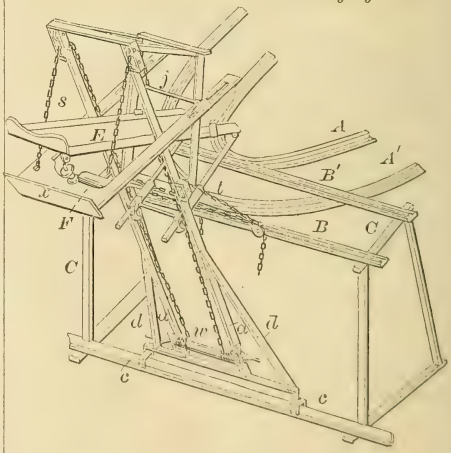



88372—L. P. Dayton—*Truss.*



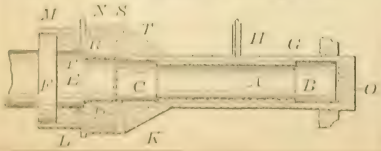

88375—E. Easton—*Whip.*

88379—E. F. Flood—*For Discharging Coal.*

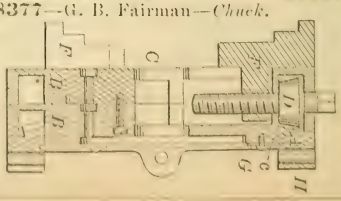



88378—Fisher & Mack—*Horse Shoe Nail Clincher.*

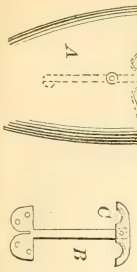
88375—T. H. Elder—*Carriage Axle.*



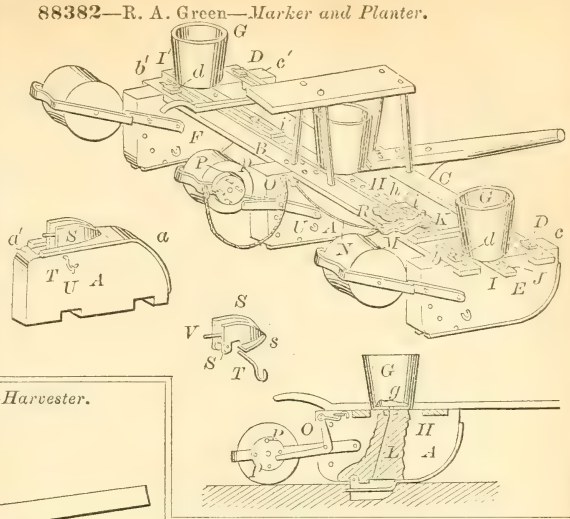

88377—G. B. Fairman—*Chuck.*



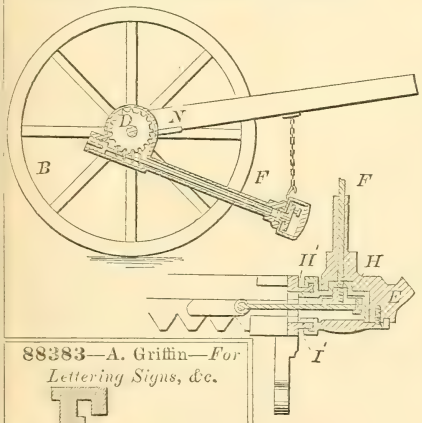
**88380**—D. Forrest—*Boot Strap.*



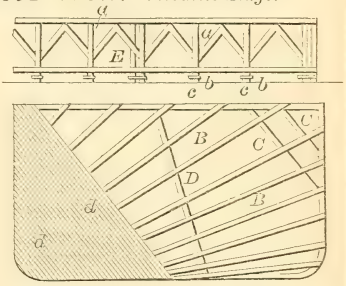
**88382**—R. A. Green—*Marker and Planter.*



**88381**—W. F. Goodwin—*Harvester.*

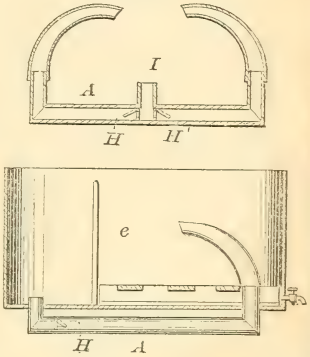


**88384**—T. Grob—*Acoustic Stage.*

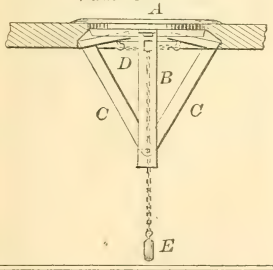


**88383**—A. Griffin—*For Lettering Signs, &c.*

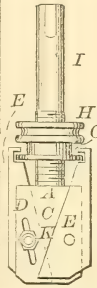
**88387**—Inman & Withington—*Wash Boiler.*



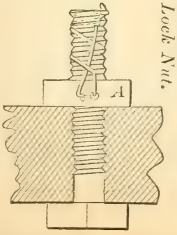
**88386**—Hoyt & Van Cleef—*Vault Cover.*



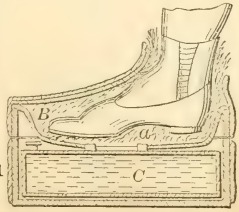
**88389**—H. James—*Reamer.*



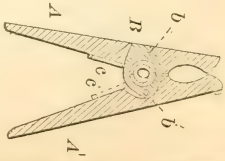
**88385**—J. W. Hilton—*Lock Nut.*



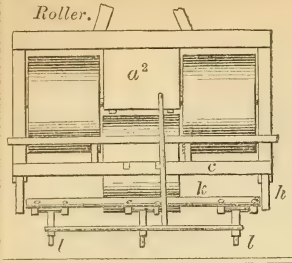
**88388**—J. Jacquet—*Foot Stool and Foot Warmer.*



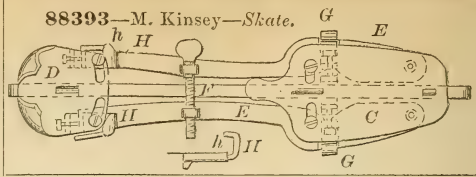
**88390**—P. Johnson—*Clothes Pin.*



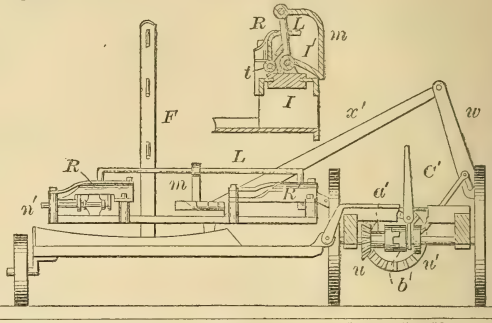
88391—E. O. Jones—*Land Roller.*



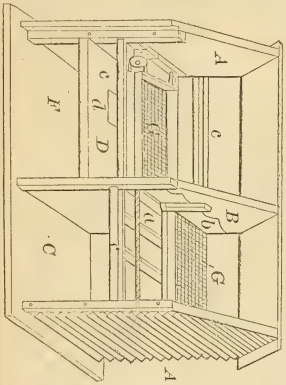

88393—M. Kinsey—*Skate.*



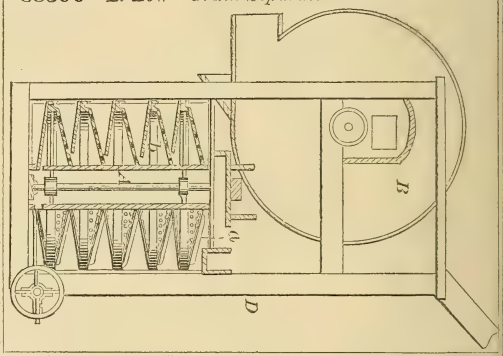

88394—C. Lidren—*Harvester Rake.*



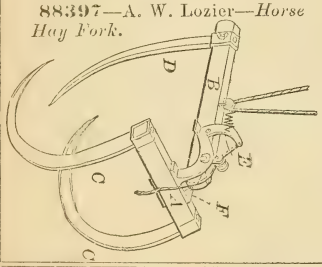

88395—W. Loofbourow—*Hop Dryer.*



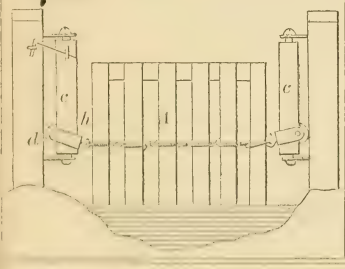

88396—L. Low—*Grain Separator.*



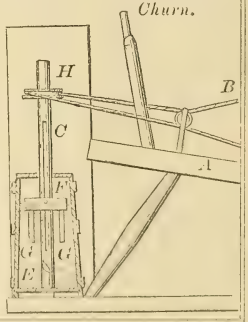

88397—A. W. Lozier—*Horse Hay Fork.*



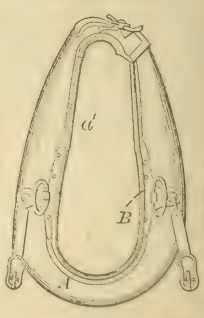

88398—A. Main—*Flood Gate.*



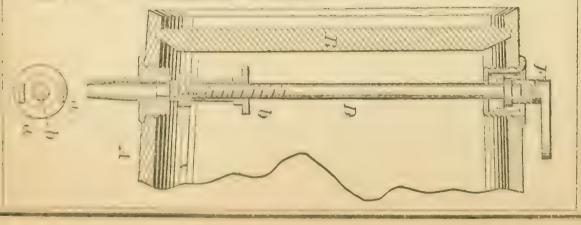

88399—M. A. McAfee—*Churn.*




88400—B. W. McCure—*Horse Collar.*

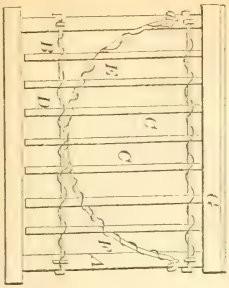



88402—J. W. McKee—*Faucet.*

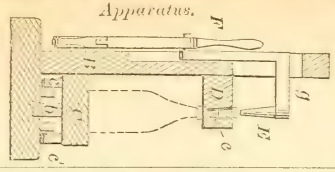



88403—A. F. Migeon—*Cattle Tie.*

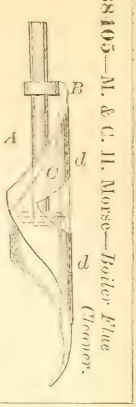
88401—J. W. McCormick—*Fence.*



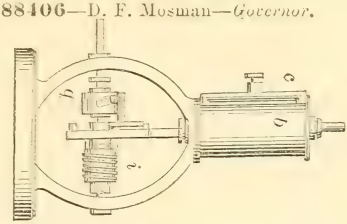
88404—G. Migliavacca—*Bottle Corking Apparatus.*



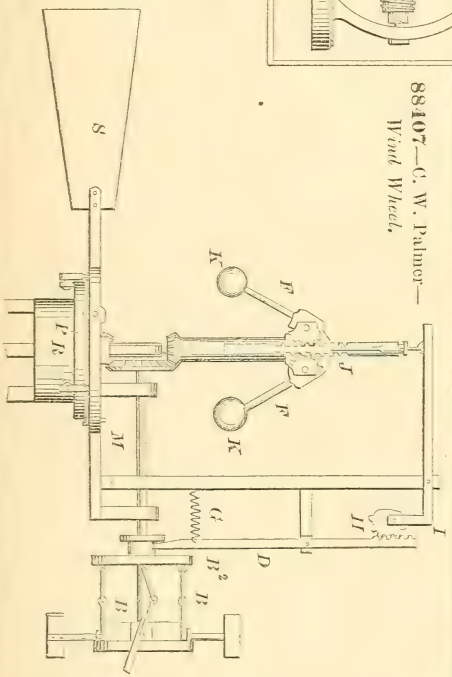
88405—M. & C. H. Morse—*Boiler Flue Cleaner.*



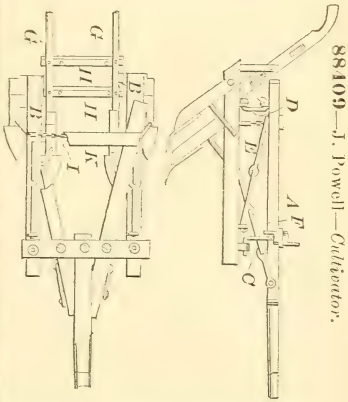
88406—D. F. Mosman—*Governor.*



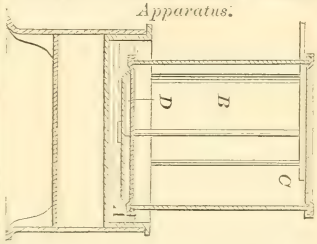
88407—C. W. Palmer—*Wind Wheel.*



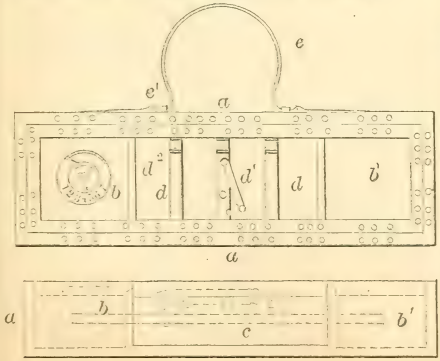
88409—J. Powell—*Cultivator.*



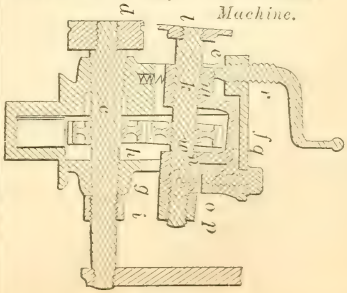
88410—Pratt & Seimel—*Soldering Apparatus.*



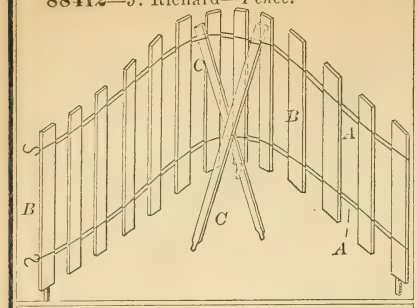
88408—A. Philipp—*Cigar Ash Holder, &c.*



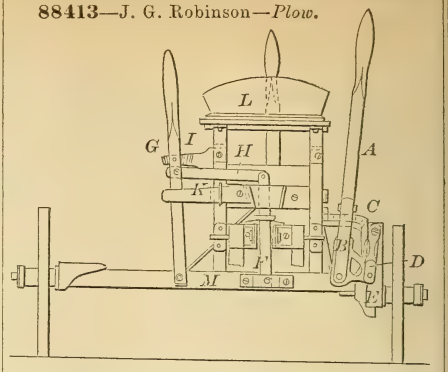
88411—C. H. Raymond—*Tinman's Machine.*



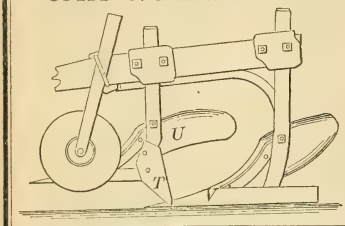
88412—J. Richard—*Fence.*



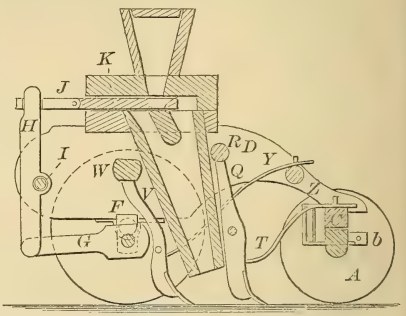

88413—J. G. Robinson—*Plow.*



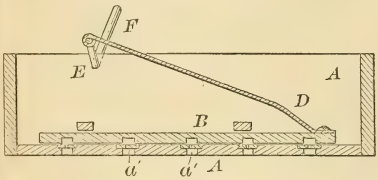

88414—J. G. Robinson—*Plow.*



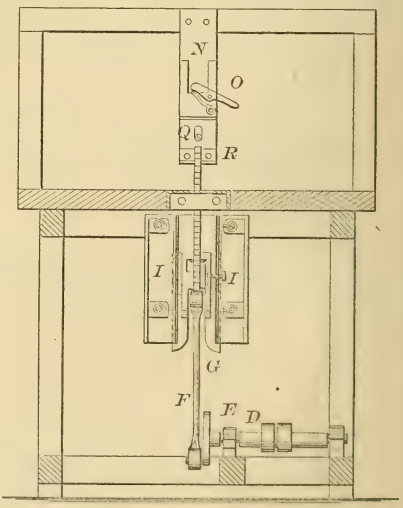

88415—P. Rogers—*Corn Planter.*



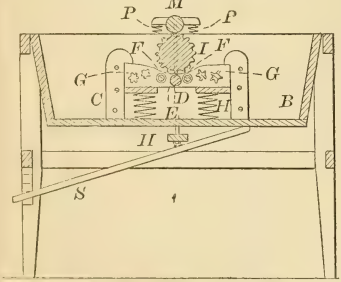

88416—M. Sackett—*Seeder.*



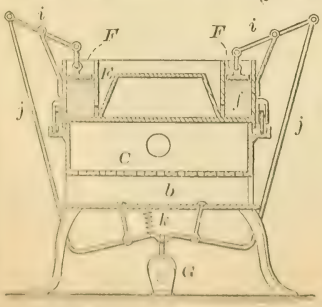

88417—A. M. Schilling—*Sawing Machine.*



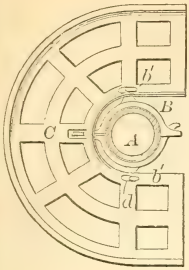

88418—A. Schlingman—*Washing Machine.*



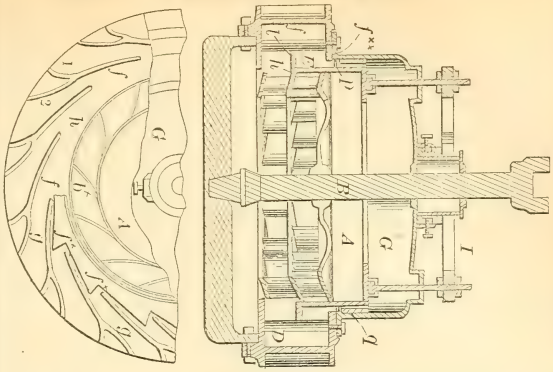

88419—C. Seimel—*Soldering Furnace.*



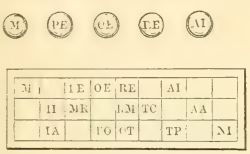
**88420**—J. P. Sherwood—*Stovepipe Shelf.*



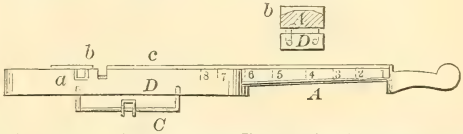
**88422**—J E. Stevenson—*Water Wheel.*



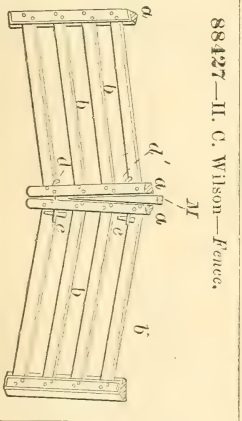
**88421**—A. G. Slagle—*Game.*



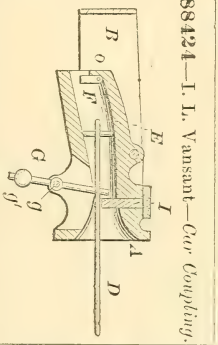
**88423**—S. Upson—*For Violin Practice.*



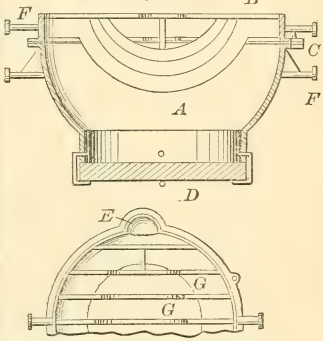
**88427**—H. C. Wilson—*Fence.*



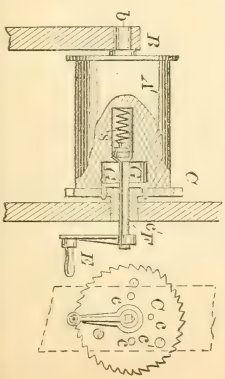
**88424**—I. I. Vansant—*Car Coupling.*



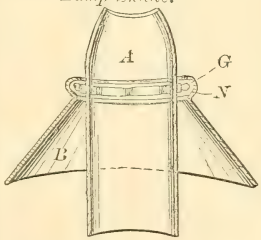
**88425**—G. Walworth—*For Moulding Kettles.*



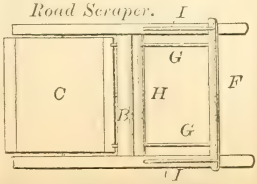
**88428**—C. E. Woodruff—*Water Elevator.*



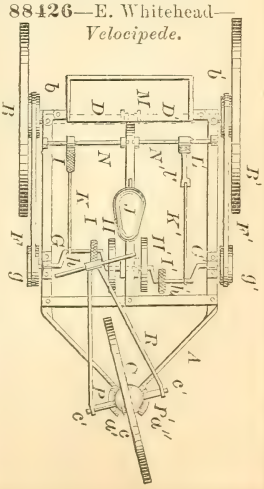
**88430**—J. B. Alexander—*Lamp Shade.*



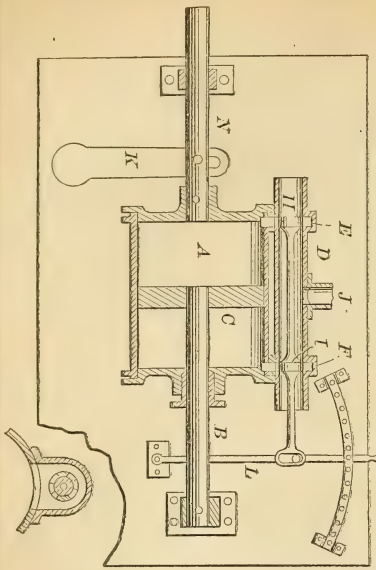
**88429**—S. Alderman—*Road Scraper.*



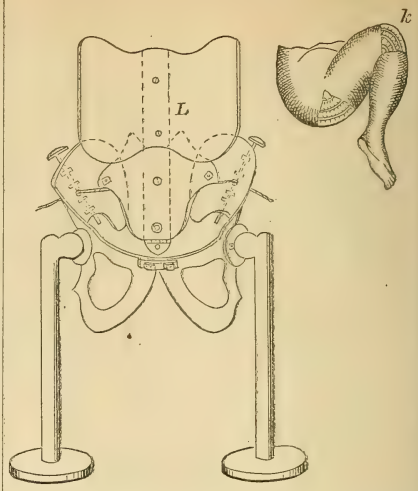
**88426**—E. Whitehead—*Velocipede.*



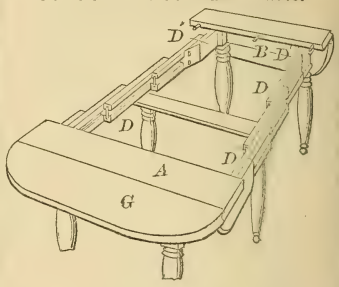
88431—J. Atkins—*For Controlling Fluids under Pressure.*



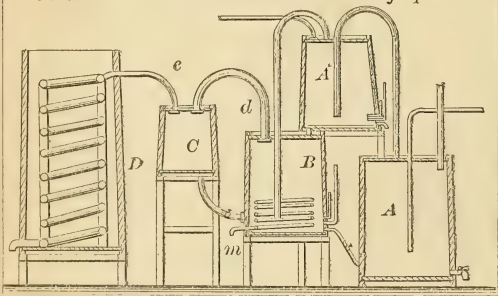

88432—B. H. Aylworth—*Manikin.*



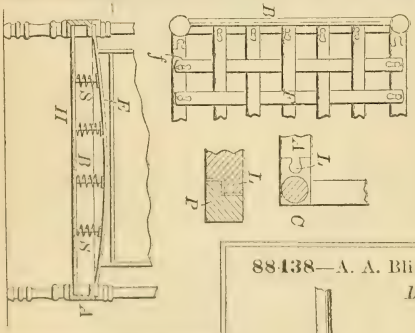

88433—H. Bachman—*Table.*



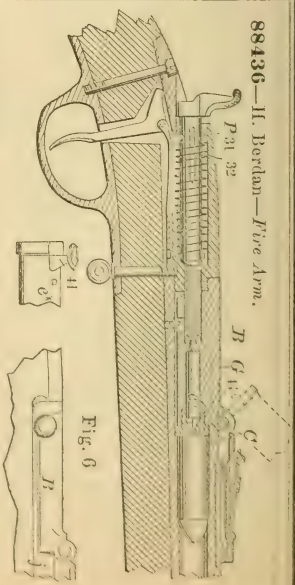

88434—E. D. Bannister—*For Distilling Spirits.*



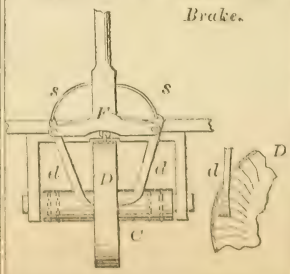

88435—Bayston & Nicholson—*Bedstead.*



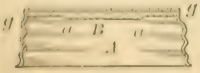

88436—H. Berdan—*Fire Arm.*



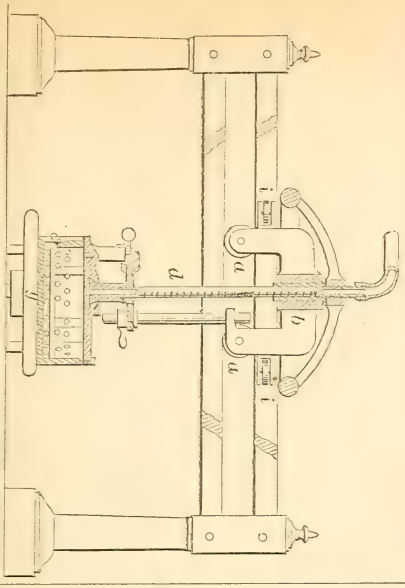

88438—A. A. Bliven—*Car Brake.*



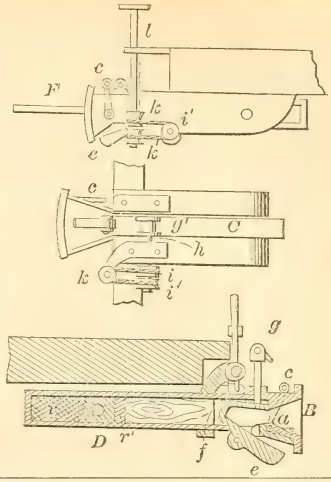

88439—L. R. Boyd—*For Preventing Corrosion in Metallic Caps.*



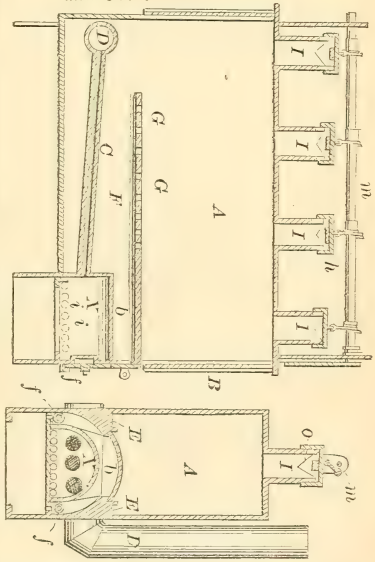
88437—J. Berenger—*Ironing Machine.*



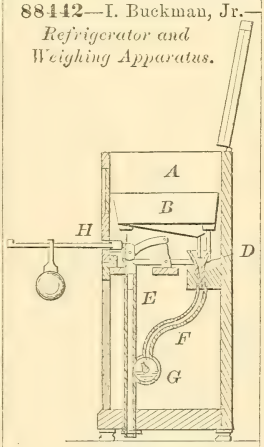
88440—W. L. Braddock—*Car Coupling.*



88441—J. K. Caldwell—*Drying Furnace and Oven.*

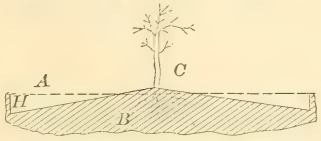


88442—I. Buckman, Jr.—*Refrigerator and Weighing Apparatus.*

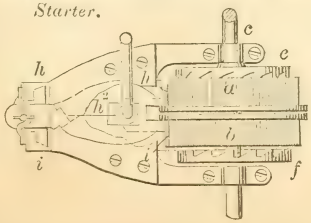


88444—G. W. Bradley—*Spike for Overshoes.*

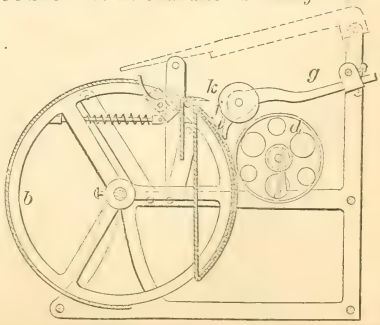
88445—S. N. Caldwell—*Fence.*



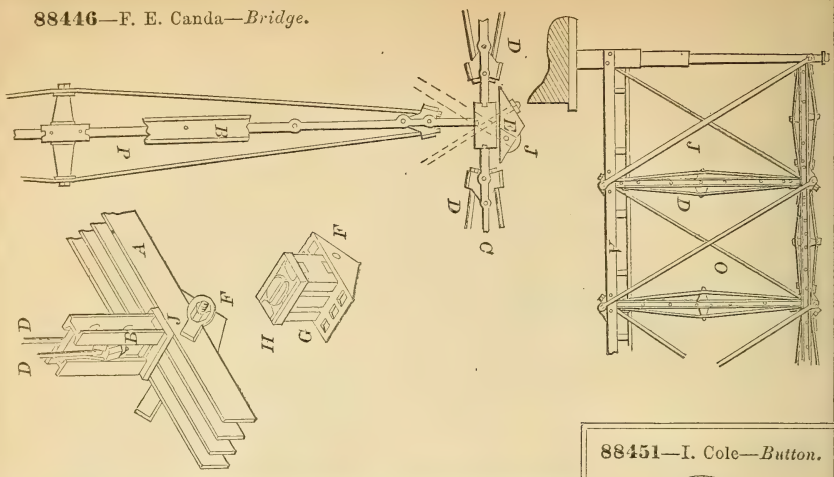
88447—R. R. Carpenter—*Car Brake and Starter.*



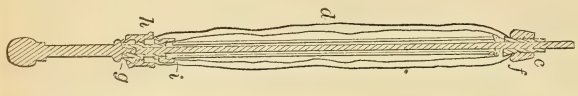
88448—W. H. Chandler—*Printing Press.*



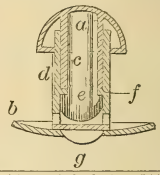
**88446**—F. E. Canda—*Bridge.*



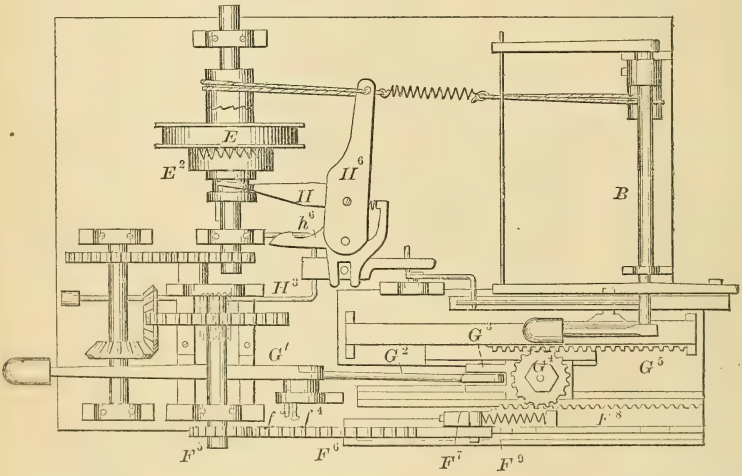
**88449**—J. C. Clime—*Umbrella Cover.*

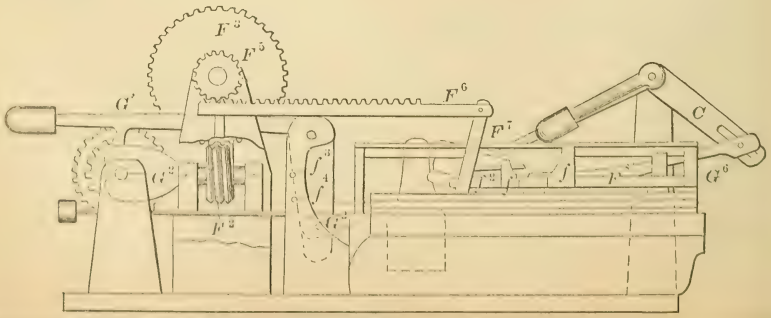


**88451**—I. Cole—*Button.*

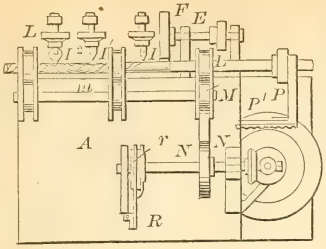


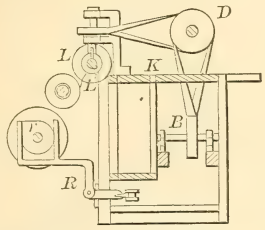
**88450**—B. C. Coldwell—*Spinning Mule.*



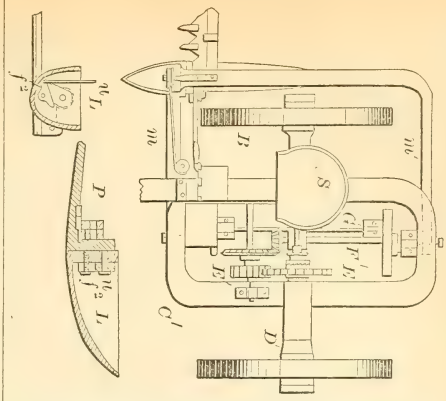


**88452**—Collins & Castiel—*Lathe.*

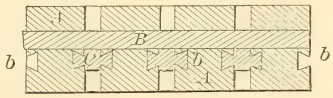


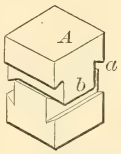




**88453**—Coolman & Young—*Harvester.*

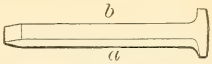



**88455**—J. R. Cushier—*Pavement.*

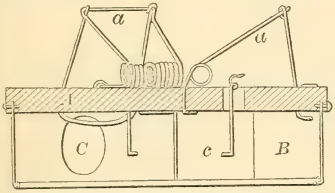


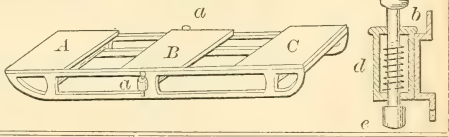

**88454**—J. M. Cooper—*Nail.*



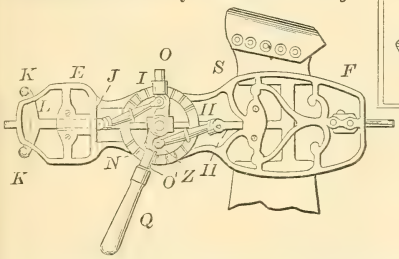

**88456**—A. G. Davis—*Trap.*



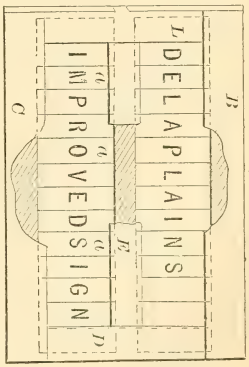

**88457**—C. de Bodisco—*Sled.*



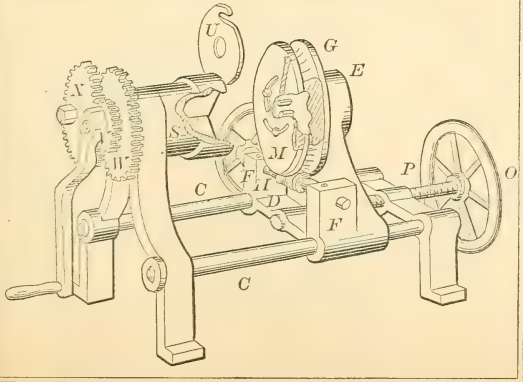

**88459**—P. Dooley—*Skate Fastening.*



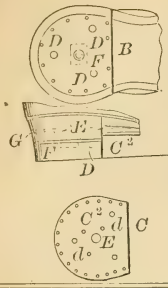

**88458**—W. P. Delaplain—*Sign.*



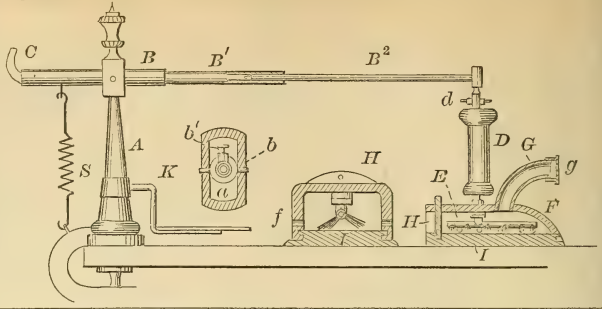

**88460**—J. Dougherty—*For Cutting Screws.*



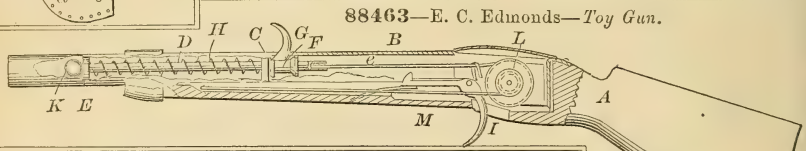
88461—W. T. Downs—*Heel.*



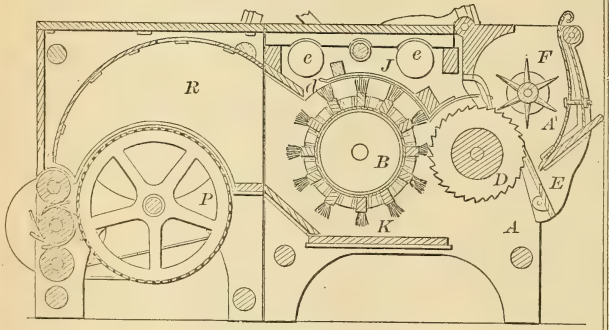
88462—H. C. Drexel—*Sad Iron Heater.*



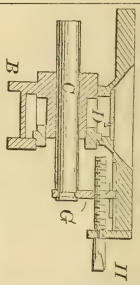
88463—E. C. Edmonds—*Toy Gun.*



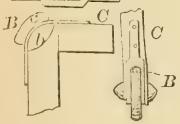
88464—H. L. Emery—*Cotton Gin.*



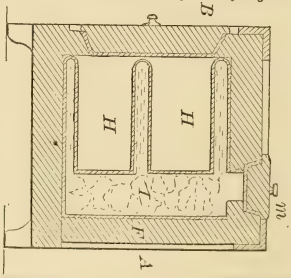
88465—J. J. Esler—*Seeding Machine.*



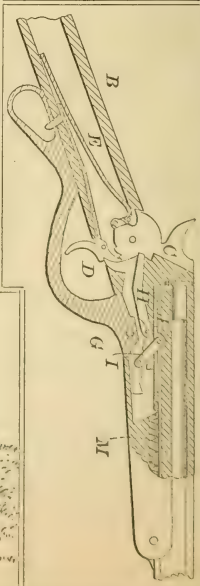
88467—J. H. French—*Slate Frame.*



88468—R. S. Godfrey—*Refrigerator.*

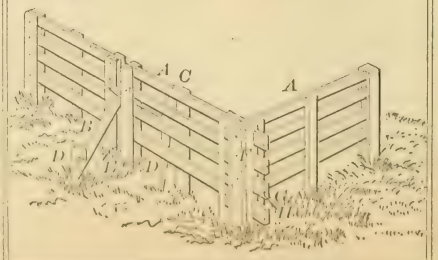


88470—W. Golcher—*Fire Arm.*

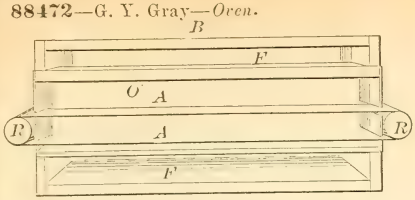


88471—L. Goodwin—*Sash Balance.*

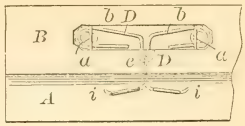
88469—W. P. Goff—*Fence.*



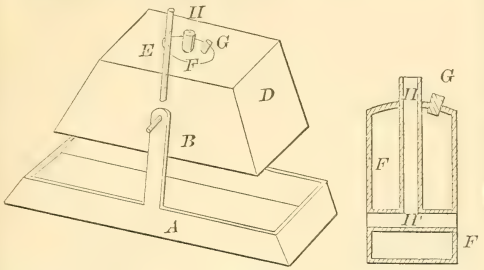
88472—G. Y. Gray—*Oven.*



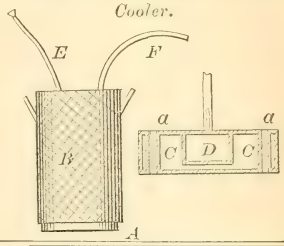

88473—A. J. Harmon—*Weather Strip.*



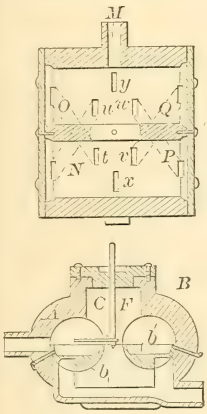

88474—J. Harper—*Churn.*



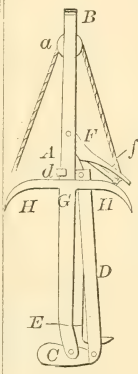

88476—L. T. Hawley—*Milk Cooler.*



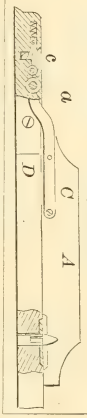

88475—J. Harris—*Meter.*



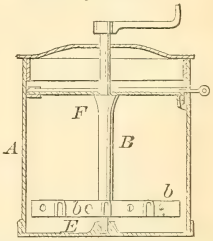

88477—G. W. Heath—*Horse Hay Fork.*



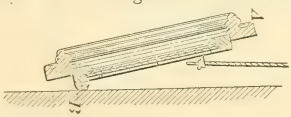

88481—E. Hitt—*Wagon Seat.*



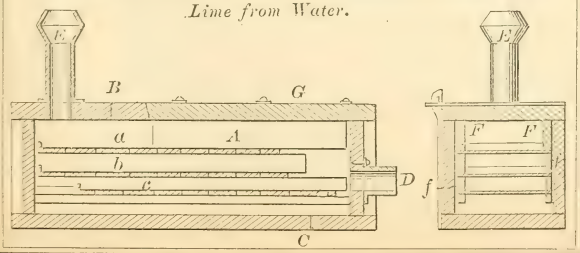

88478—C. W. Hermance—*Washing Machine.*



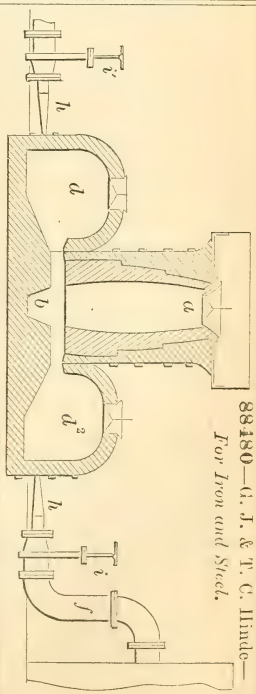

88482—C. A. Hodgman—*Picture Frame.*



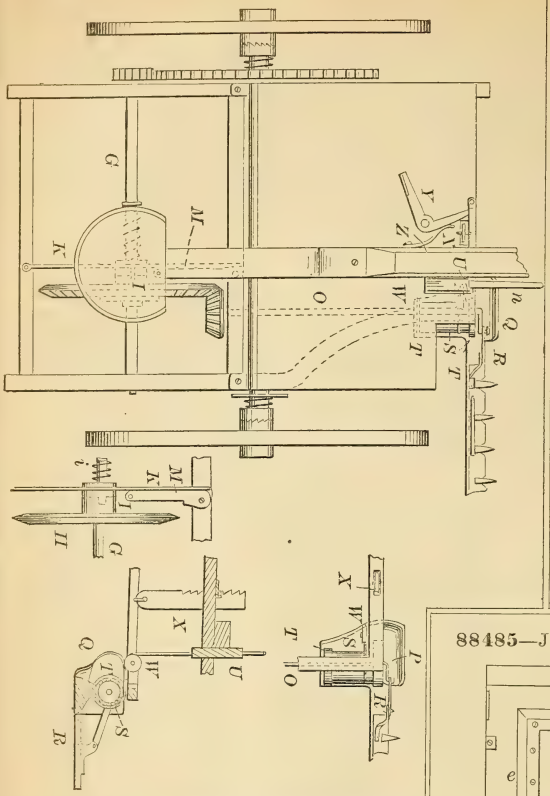

88484—Jackson & Davis—*For Heating and Separating Lime from Water.*



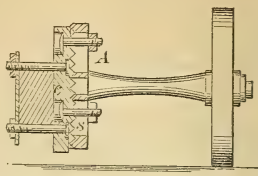

88480—G. J. & T. C. Hinde—*For Iron and Steel.*



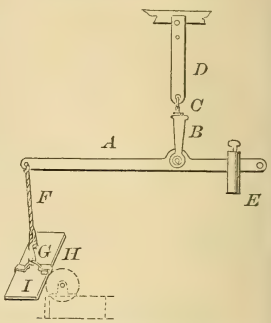
88483—G. M. Jackson—*Harvester.*



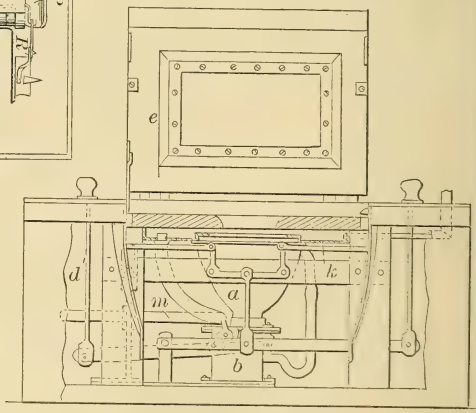
88486—W. L. Jeffries—*Plow Carriage.*



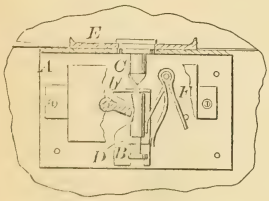
88487—T. Jones—*For Holding Plates of Glass.*



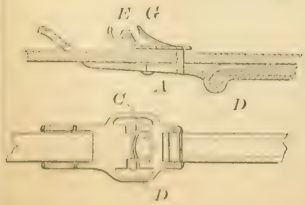
88485—James & Drewett—*Water Closet.*



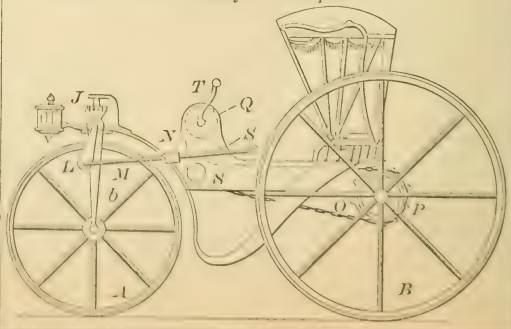
88488—R. J. Jordan—*Piano Lock.*



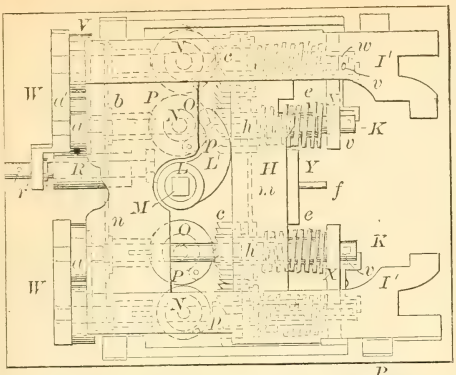
88489—E. M. Kinne—*Buckle.*

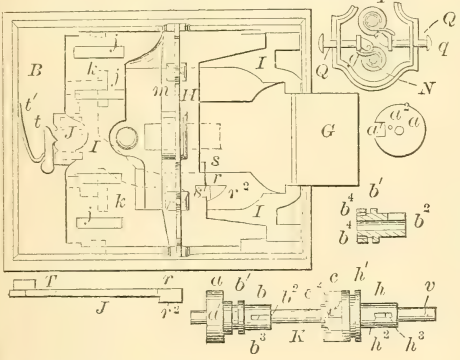


88492—H. W. Libbey—*Velocipede.*

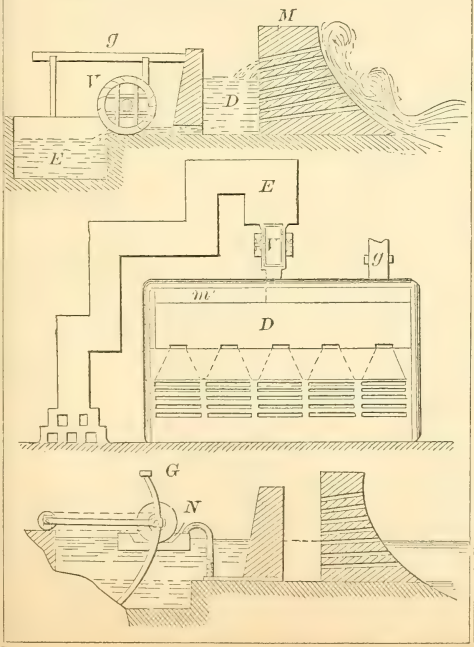


**88490**—H. S. Leland—*Lock.*

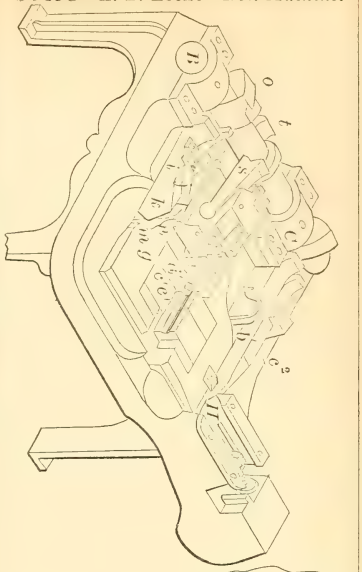


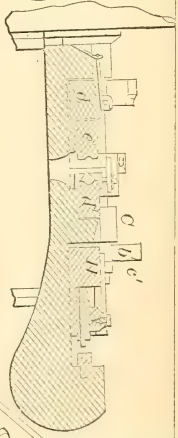


**88491**—J. R. Leon—*Tide Power.*



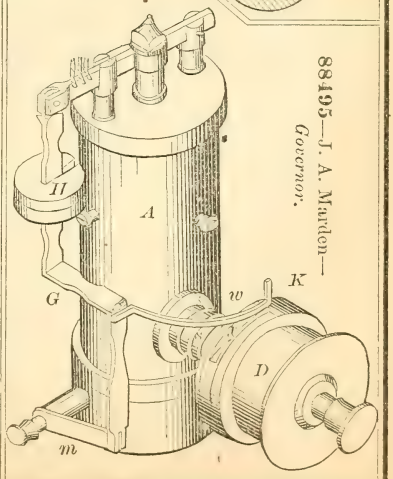
**88493**—E. B. Locke—*Bolt Machine.*



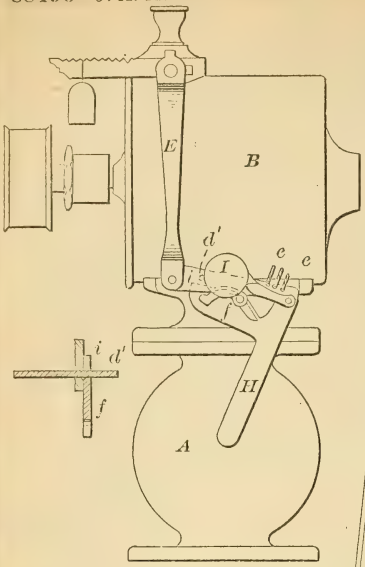


**88494**—R. O. Lowrey—*Insole.*

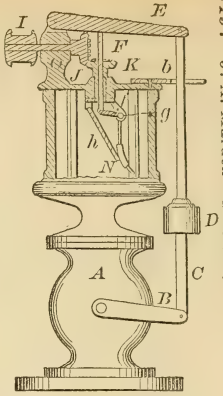
**88495**—J. A. Marden—*Governor.*



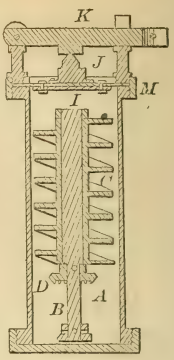
88196—J. A. Marden—*Governor.*



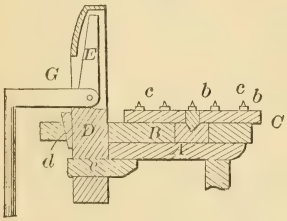

88197—J. A. Marden—*Governor.*



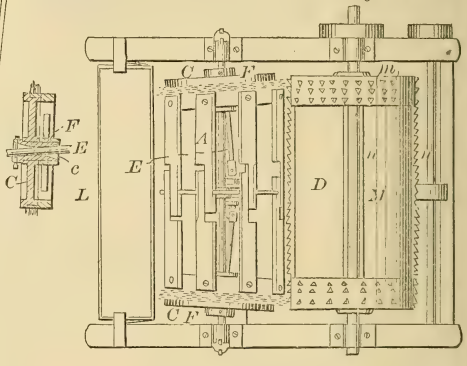

88498—Marden & Abbott—*Governor.*



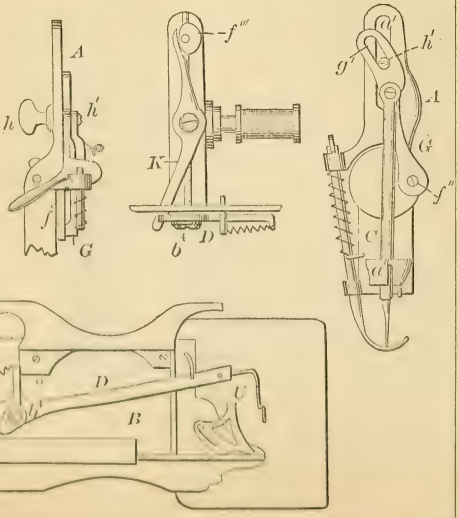

88500—W. A. McDonald—*Cheese Cutter.*



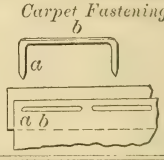

88505—I. E. Palmer—*For Stretching Fabrics.*



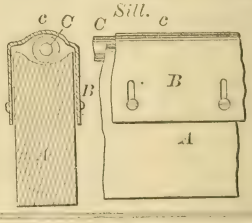

88499—J. N. McLean—*Sewing Machine.*



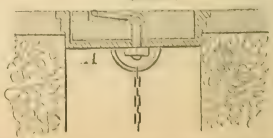

88501—P. Miles—*Curtain and Carpet Fastening.*



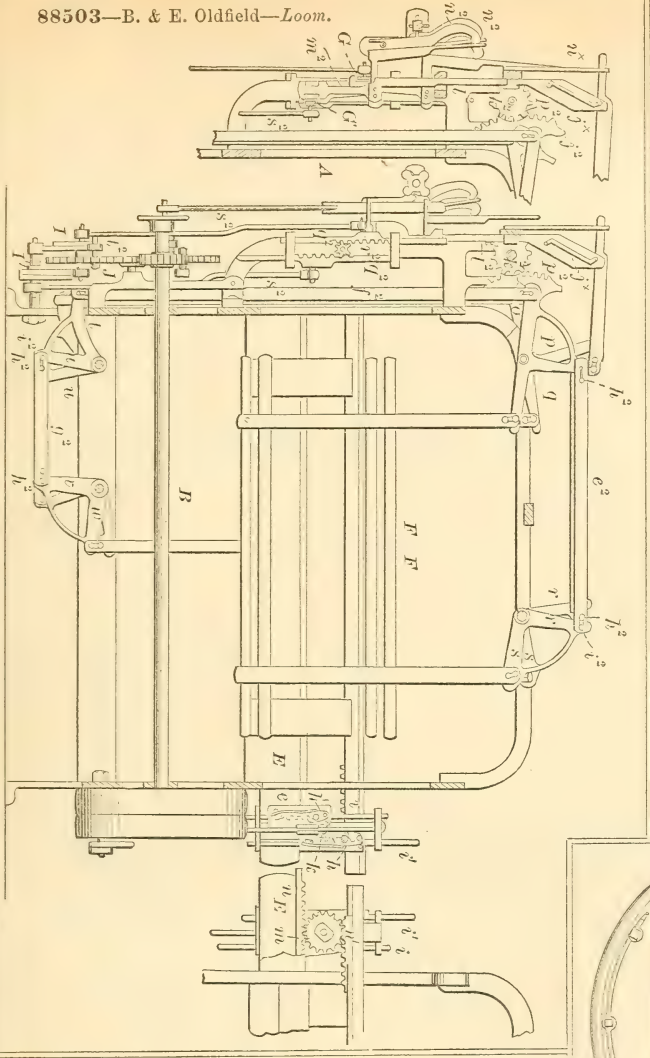

88502—J. H. Morris—*Door Sill.*



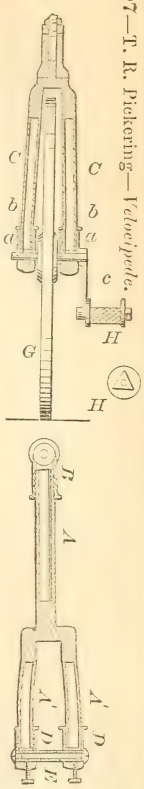

88504—G. H. Palmer—*Vault Cover.*



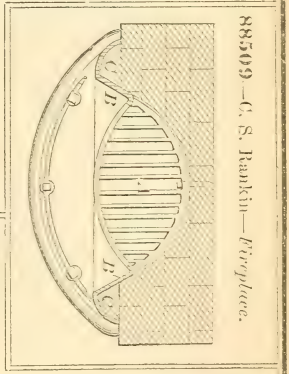
88503—B. & E. Oldfield—*Loom.*



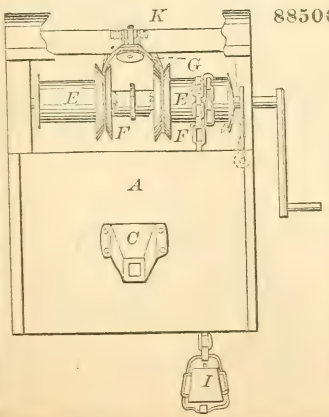
88507—T. R. Pickering—*Velocipede.*

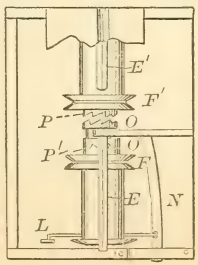


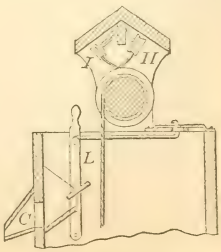
88509—G. S. Rankin—*Fireplace.*



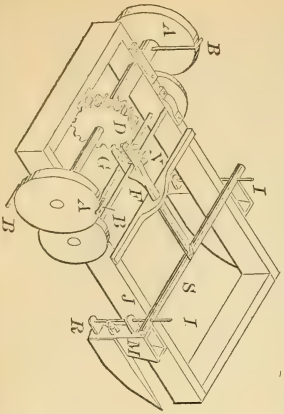
88506—W. M. Palmer—*Water Elevator.*



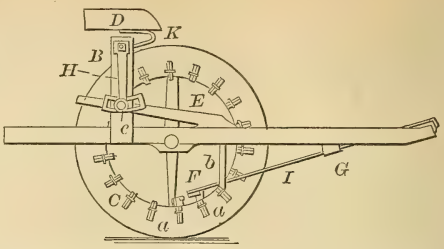




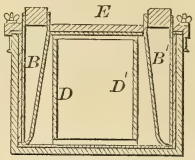
88508—N. M. Powers—*Corn Planter*



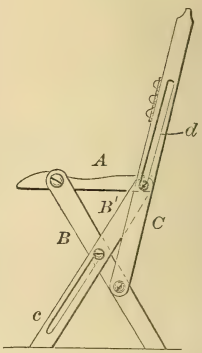

88511—Ripley & Temple—*Harvester.*



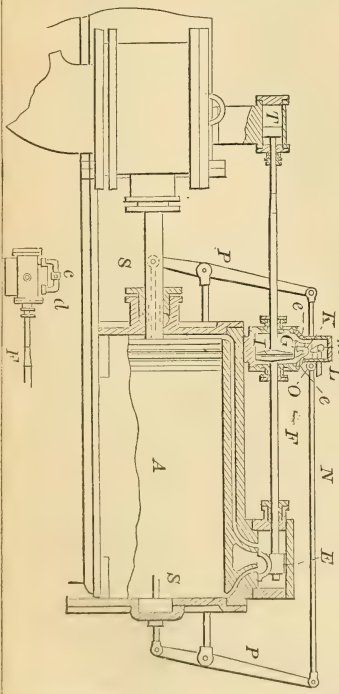

88510—A. G. Reed—*Corpse Preserver.*



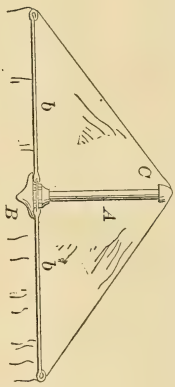

88513—A. M. Rodgers—*Chair.*



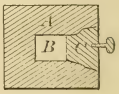

88512—W. N. Roberts—*Pump.*



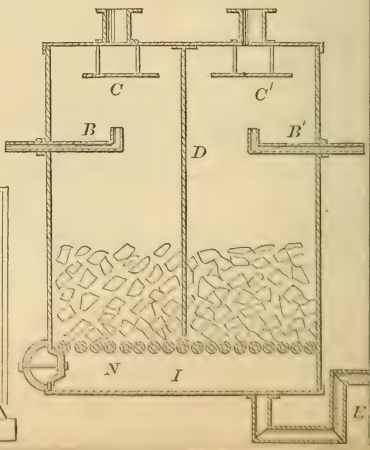

88514—S. & J. Roebuck—*Mosquito Canopy.*



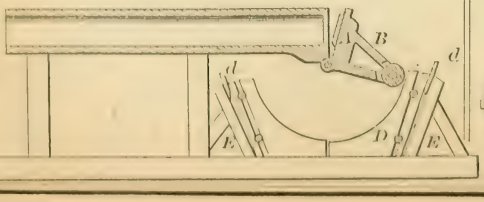

88521—Sherwood & Fitzgerald—*Safe.*



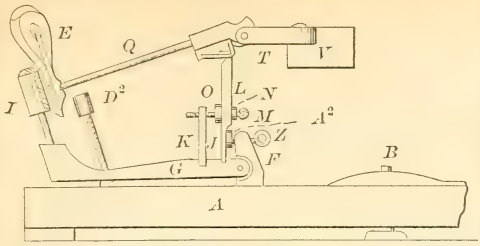

88520—R. Salter—*Gas Cooler and Washer.*



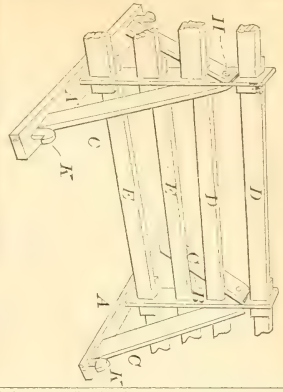

88517—R. W. Russell—*Steam Fibre Gun.*



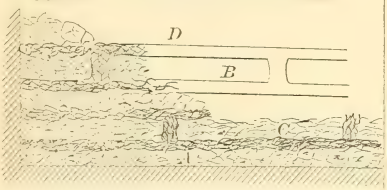
**88522**—D. H. Shirley—*Piano Forte Action.*



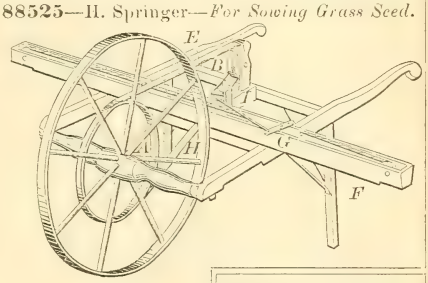

**88523**—S. C. H. Smith—*Fence.*



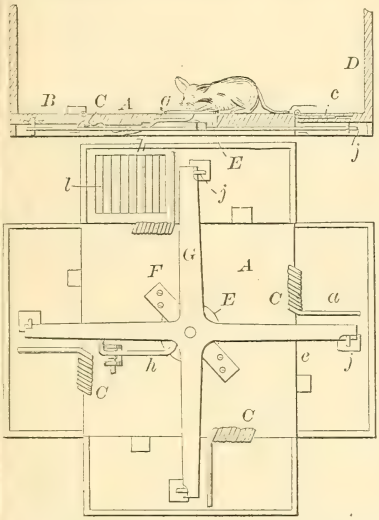

**88524**—R. S. Stenton—*For Steel.*



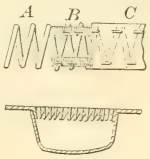

**88525**—H. Springer—*For Sowing Grass Seed.*



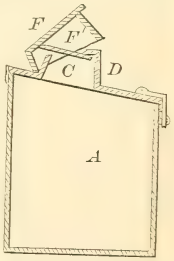

**88526**—J. J. St. Ledger—*Trap.*




**88527**—C. C. Stremme—*Hat Ventilator.*

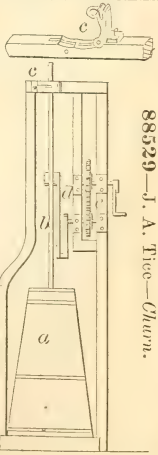



**88528**—S. Strong—

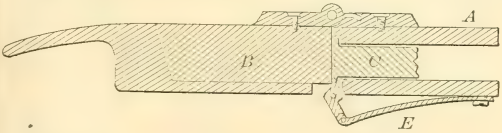



*Street Letter Box.*

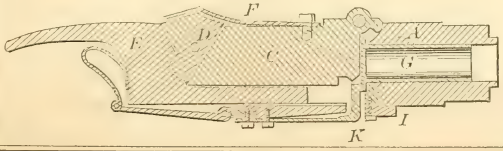
**88529**—J. A. Tice—*Churn.*



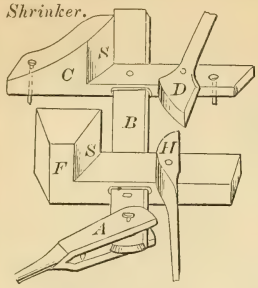

**88530**—A. L. Varney—*Fire Arm.*



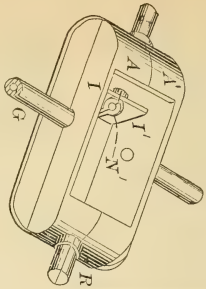

**88531**—A. L. Varney—*Fire Arm.*



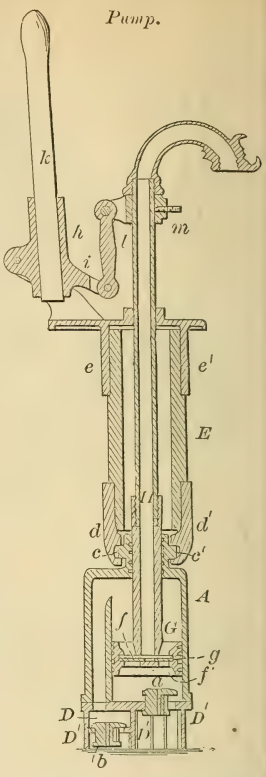
**88534**—J. Adkins—*Tire Shrinker.*



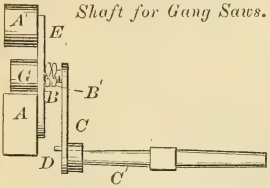

**88533**—G. W. N. Yost—*Harvester.*



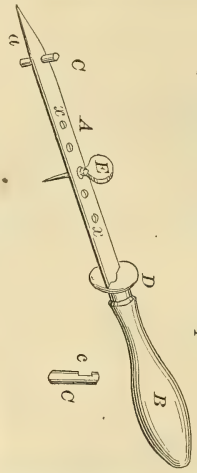

**88538**—A. C. Blethen—*Pump.*



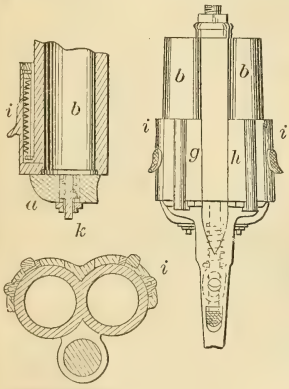

**88535**—A. P. Barlow—*Rock Shaft for Gang Saws.*



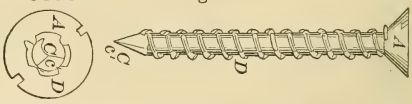

**88536**—F. G. Beach—*Can Opener.*



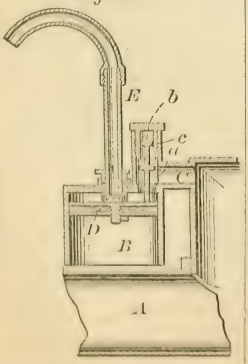

**88540**—Boyd & Tyler—*Fire Arm.*



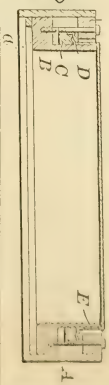

**88539**—C. Bocking—*Screw.*




**88542**—S. G. Cabell—*Hydrant.*

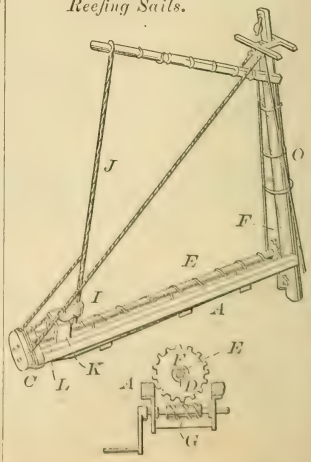



**88541**—L. Brown—*Banjo.*

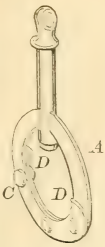



**88544**—N. S. Clement—*Table Cutlery.*

**88543**—R. Chambers—*For Reefing Sails.*

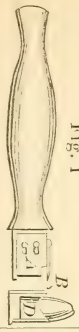


**88550**—G. M. Cooper—*Seal Lock.*

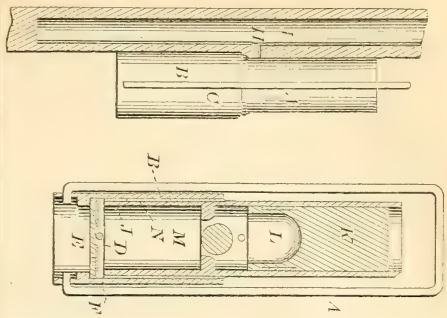



**88551**—C. Coti—*Edge Plane for Boot Soles.*

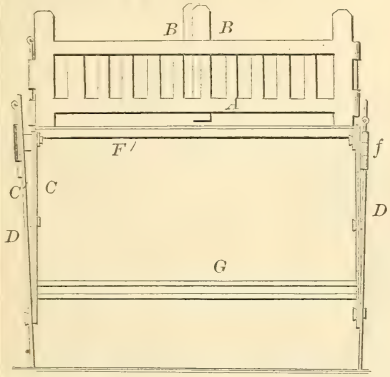
Fig. 1

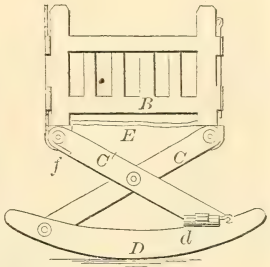



**88552**—J. C. Crawford—*Pump.*

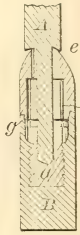



**88553**—E. N. Cutter—*Crib.*

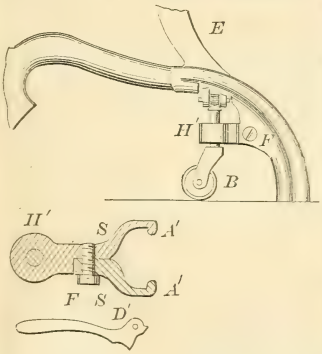


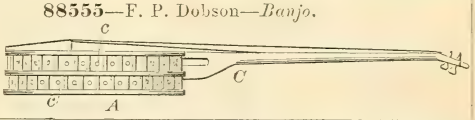

**88556**—G. Draper—*Spindle Step for Spinning Machines.*



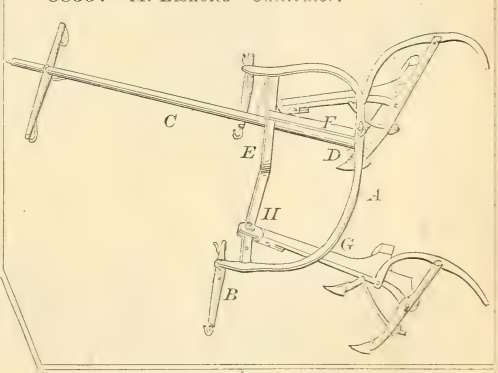

**88558**—W. P. Elliott—*Caster.*



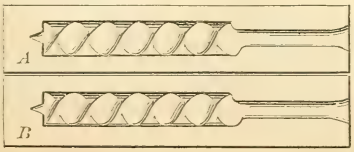

**88555**—F. P. Dobson—*Banjo.*



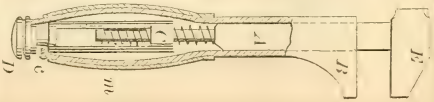

**88557**—M. Eicholtz—*Cultivator.*



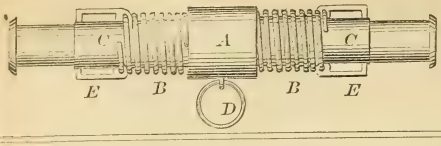

**88559**—Evans & Hayden—*For Casting Augers.*



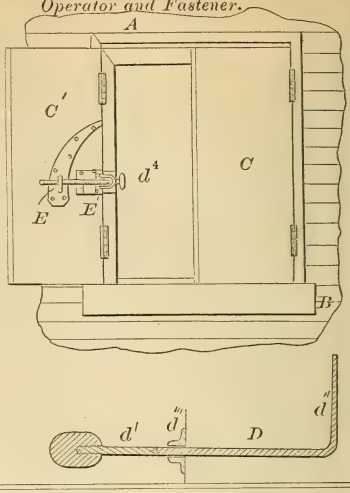

**88560**—O. V. Flora—*Wrench.*



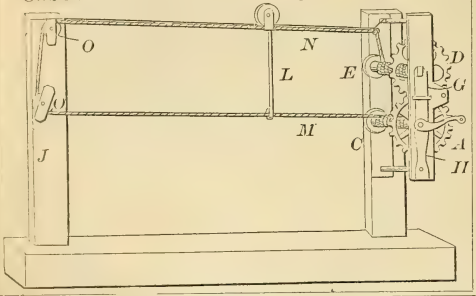
**88562**—H. E. Goble—*Neck Yoke.*



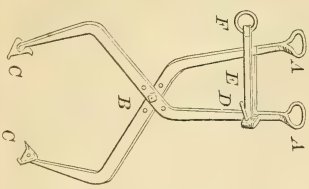

**88565**—G. A. & J. B. Harris—*Shutter Operator and Fastener.*



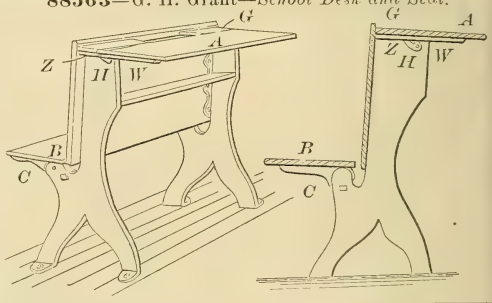

**88566**—E. Hause—*Clothes Dryer.*



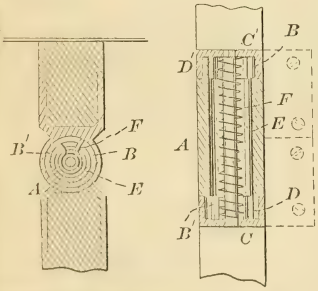

**88564**—E. Grosjean—*Barrel Truck.*



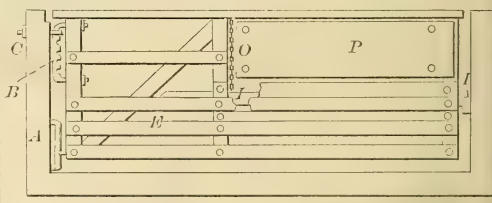

**88563**—G. H. Grant—*School Desk and Seat.*



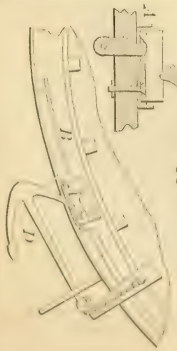

**88567**—V. S. Herzog—*Hinge.*



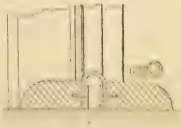

**88569**—Hill, Ostrander & Spink—*Farm Gate.*



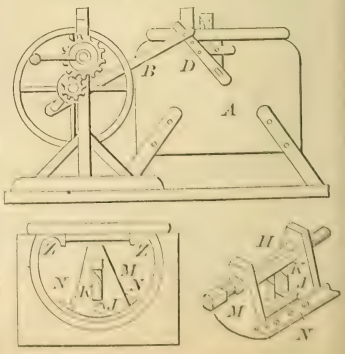

**88571**—J. B. Hopkins—*Anchor Tripper.*



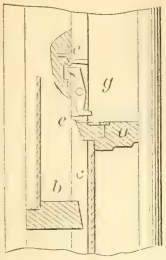

**88572**—J. Johnston—*Weather Strip.*



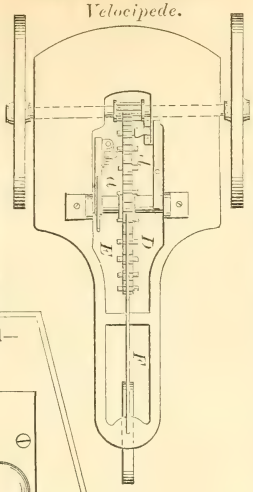
**88568**—C. Hess—*Churn.*



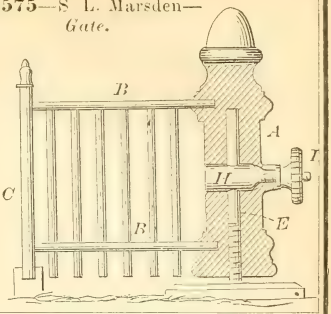
88573—M. Judd—*Sash Holder.*



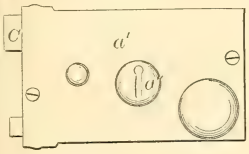
88574—W. Lindon—*Velocipede.*



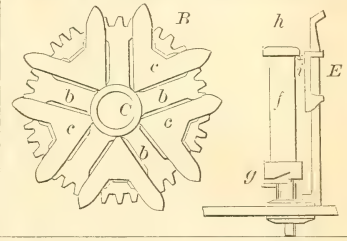
88575—S. L. Marsden—*Gate.*

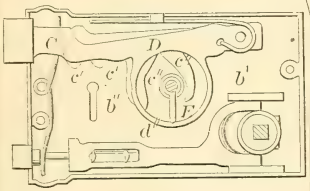


88577—R. McDowell—*Door Lock.*

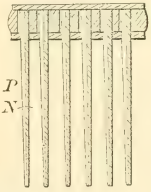


88576—G. Mason—*For Braiding.*

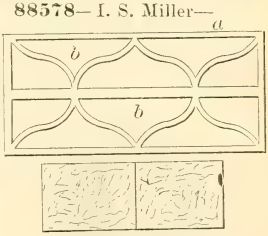




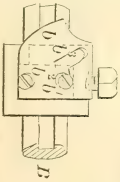
88582—H. M. Paine—*Comb.*

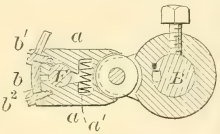


88578—I. S. Miller—

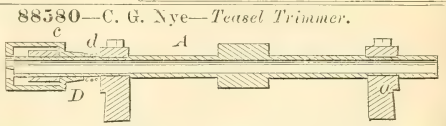


*For Building Fronts.*

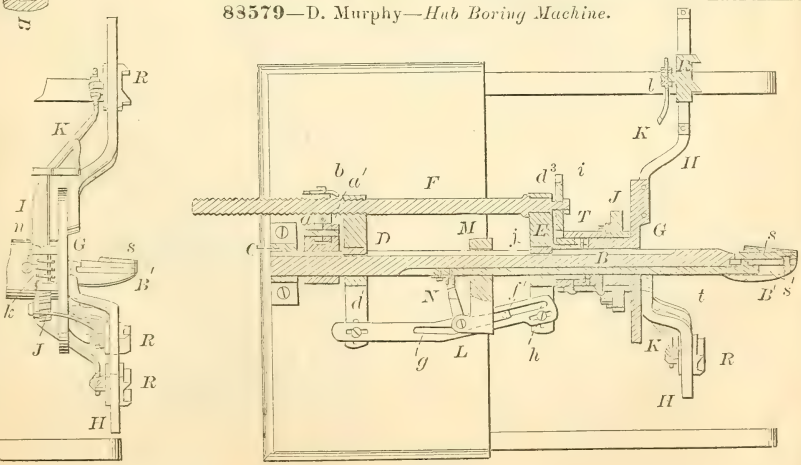




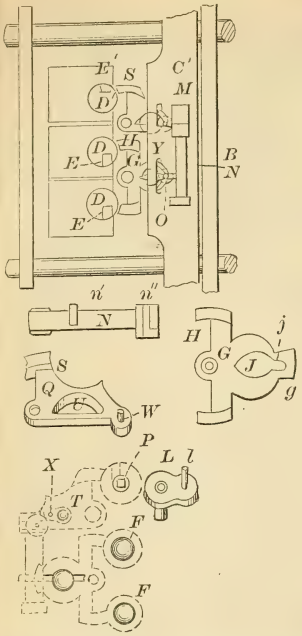
88580—C. G. Nye—*Teasel Trimmer.*



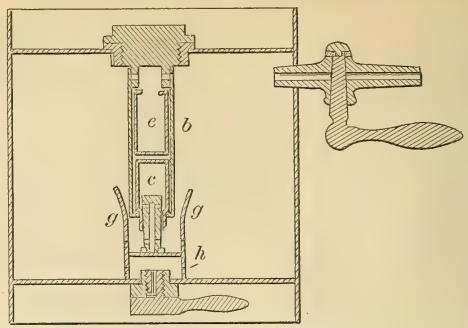
88579—D. Murphy—*Hub Boring Machine.*



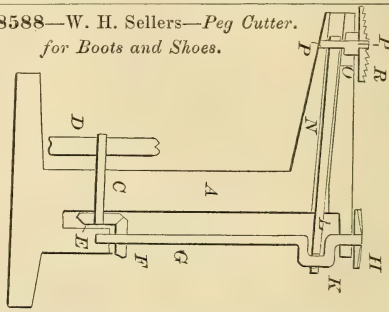
88581—D. O. Paige—*Lock.*



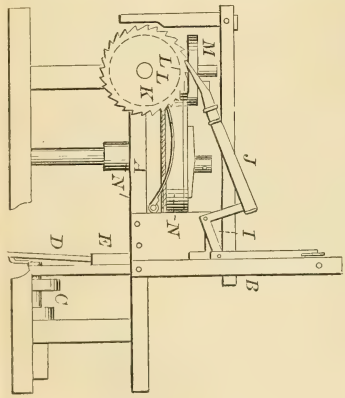

88583—W. M. Parker—*Fire Extinguisher.*



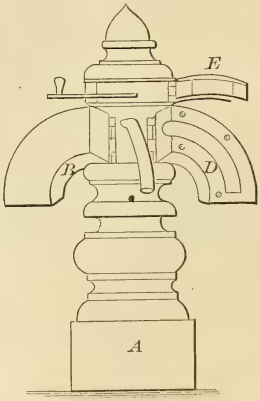

88588—W. H. Sellers—*Peg Cutter. for Boots and Shoes.*



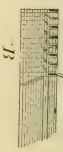

88586—J. Rice—*Felloe Sawing Machine.*



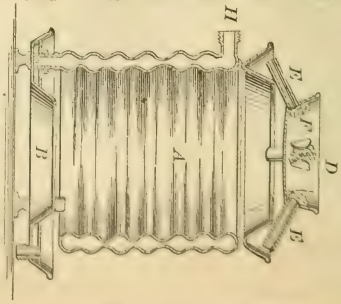

88589—J. W. Slocum—*Hydrant*

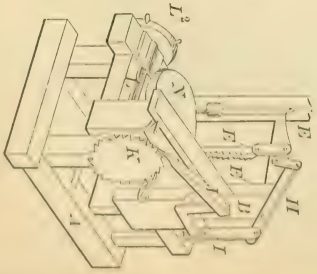



88587—J. Schlichting—*Bookbinders' Head Band.*

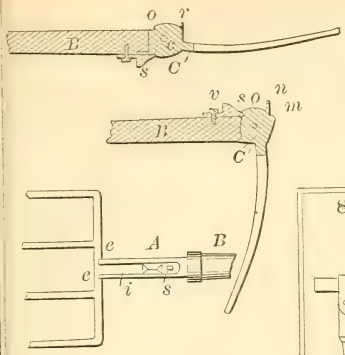



88584—Pietsch & Walter—*Beer Cooler.*

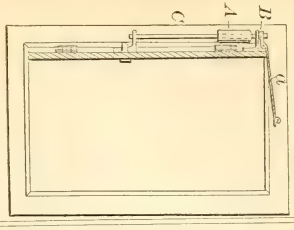


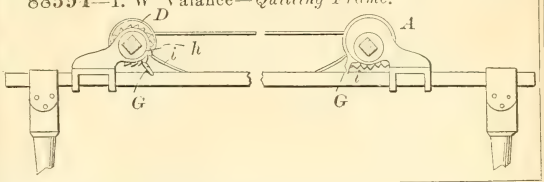
**88591**—B. L. Tibbetts—*Hoe and Fork.*



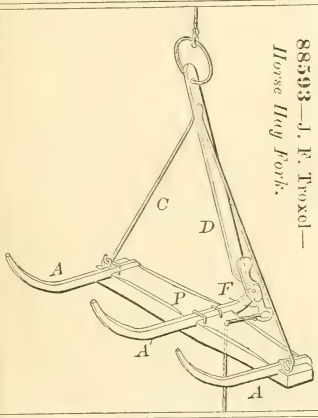

**88592**—P. J. Tillmann—*Door Pulley.*



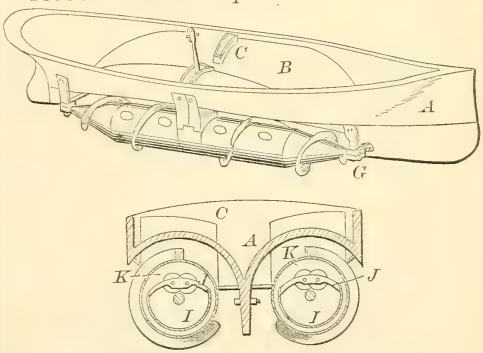

**88594**—I. W. Valance—*Quilting Frame.*



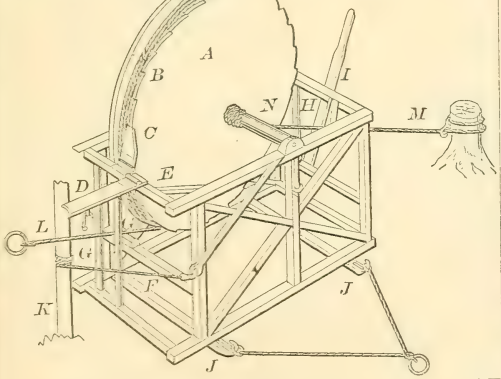

**88593**—J. F. Troxel—*Horse Hay Fork.*



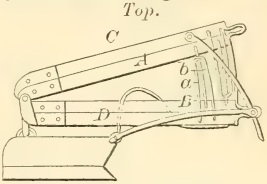

**88595**—C. Ward—*Propeller.*



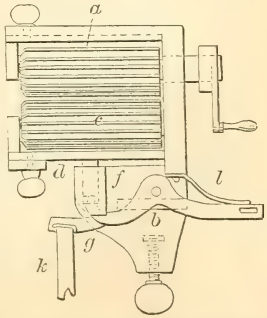

**88596**—J. A. Woodworth—*Stump Extractor.*



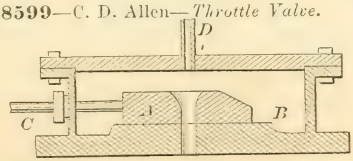

**88597**—R. H. Wright—*Carriage Top.*



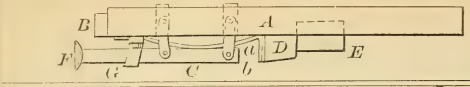

**88598**—H. B. Adams—*Fluting Machine.*



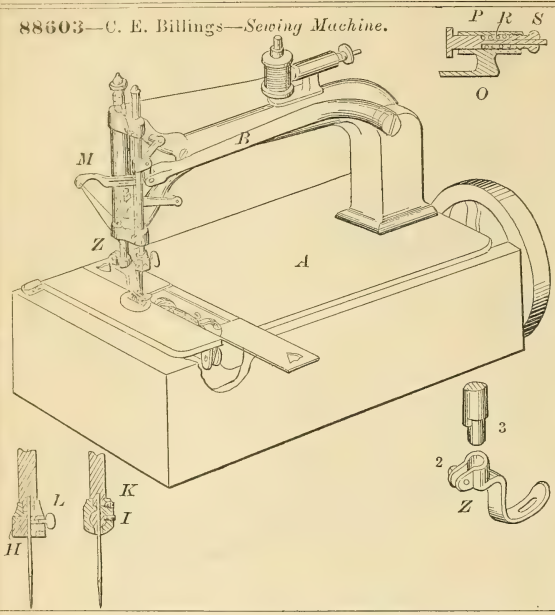

**88599**—C. D. Allen—*Throttle Valve.*



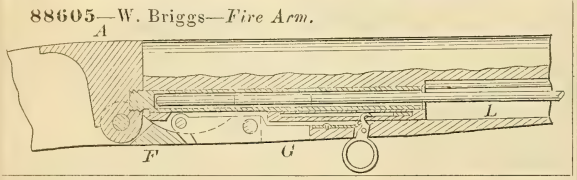
**88600**—Allen & Valiquette—*Railroad Car Buffer.*



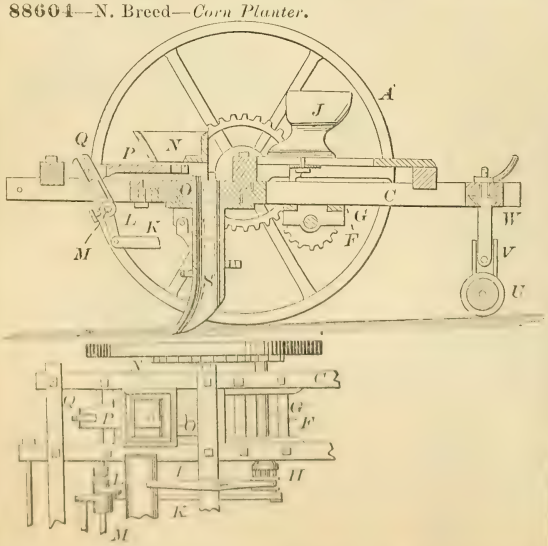

**88603**—C. E. Billings—*Sewing Machine.*



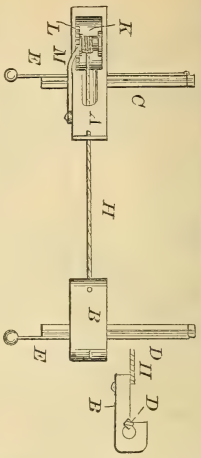

**88605**—W. Briggs—*Fire Arm.*



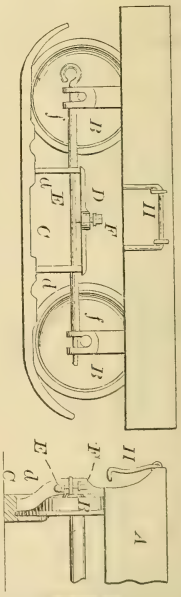

**88604**—N. Breed—*Corn Planter.*



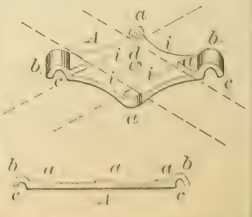

**88606**—J. Bryant—*Line Holder.*



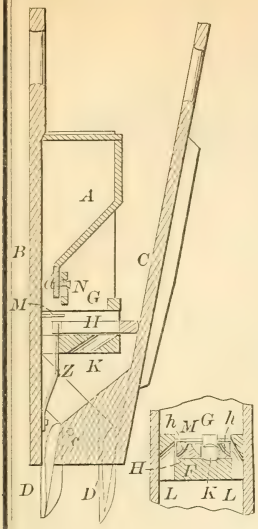

**88601**—B. Auerbach—*Attaching Sleigh Runners to Street Cars.*



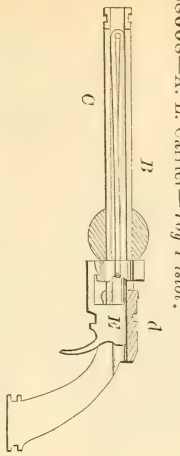

**88602**—J. S. Barnum—*For Securing Springs to Bed Bottoms and Mattresses.*



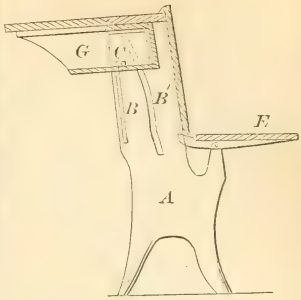
**88607**—G. Burson—*Hand Corn Planter.*



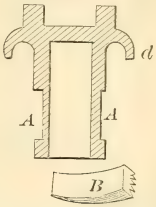

**88608**—A. L. Carrier—*Toy Pistol.*



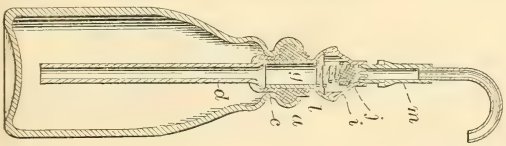

**88609**—A. Chandler—*Desk.*



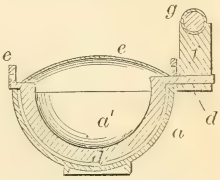

**88611**—R. A. Copeland—*Ferrule for Boiler Tubes.*



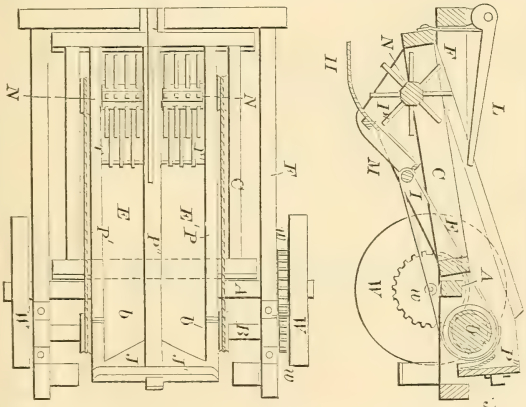

**88610**—C. J. Converse—*Siphon Bottle.*



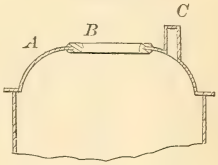

**88612**—L. B. Crittenden—*Coffee Roaster.*



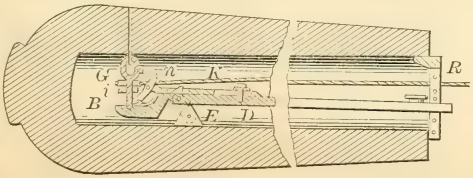

**88613**—I. Curtis—*Potato Digger.*



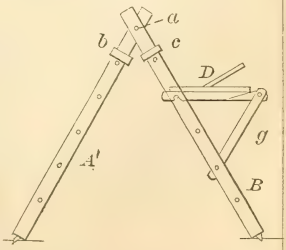

**88614**—Z. Dixon—*Tea Kettle Breast.*



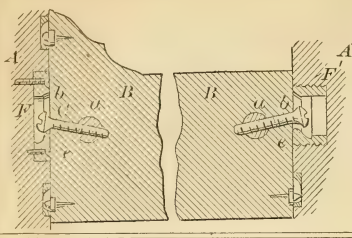

**88615**—T. J. Dobbs—*For Unspiking Guns.*



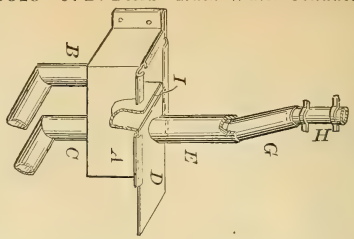

**88616**—R. L. Dodge—*Ladder.*



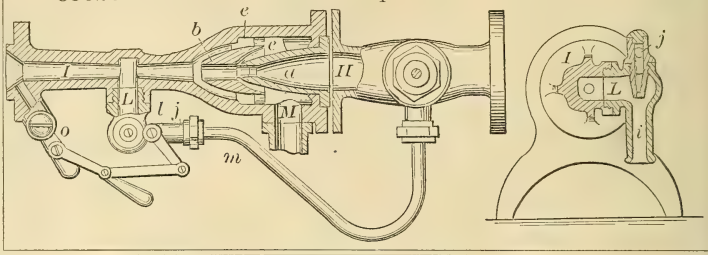
88617—J. Doering—*Bedstead Fastener.*



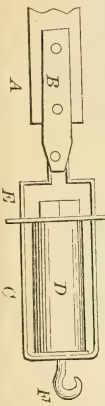
88618—J. D. Field—*Rain Water Conductor.*



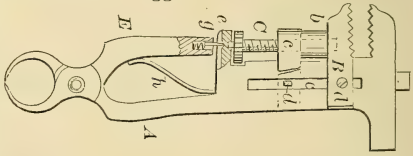
88620—A. Friedmann—*Steam Pump.*



88619—L. Fliedner—*Link for Clevis.*



88621—E. Froggatt—*Wrench and Pincers.*



88624—J. Gatchell—*Templet for Bending Springs.*

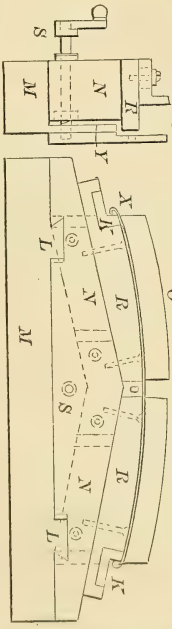
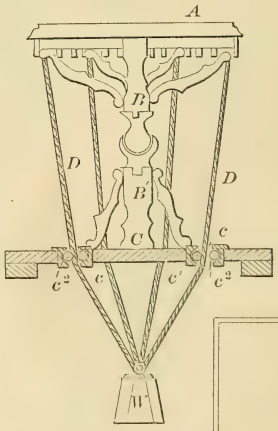


Fig. 1

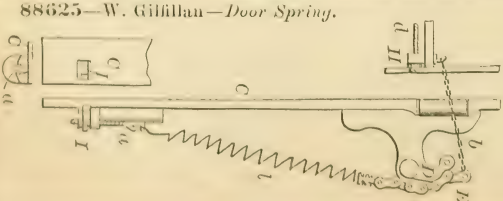
88622—E. Gallier—*Marine Furniture.*



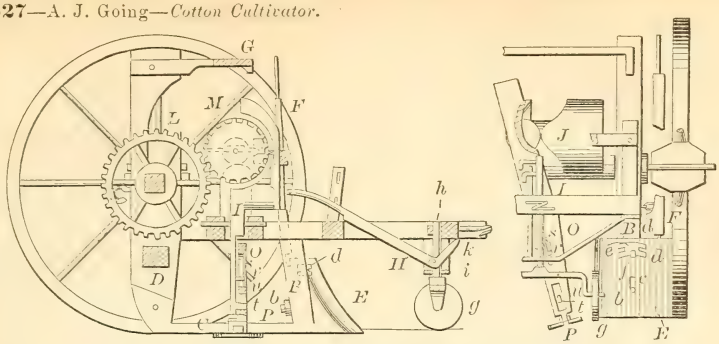
88623—G. P. Ganster—*Wrench.*

88626—J. W. Gillespie—*Brace Trough Bracket.*

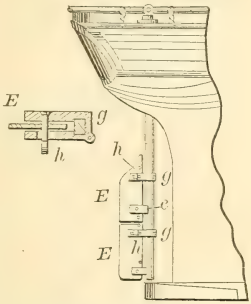
88625—W. Gilfillan—*Door Spring.*



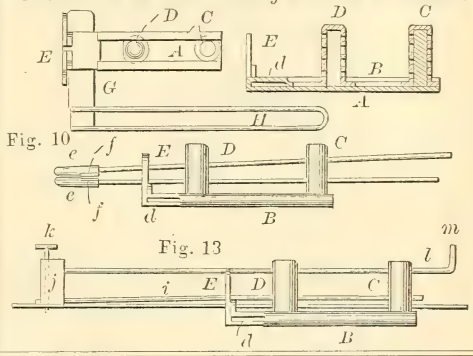
**88627**—A. J. Going—*Cotton Cultivator.*



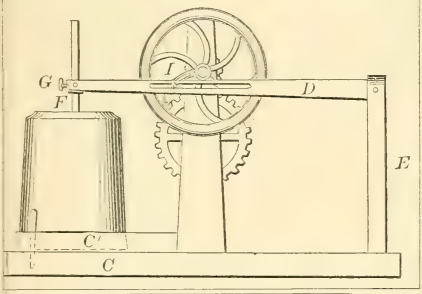

**88628**—T. F. & E. C. Goodwin & Goin—*Ship's Rudder.*



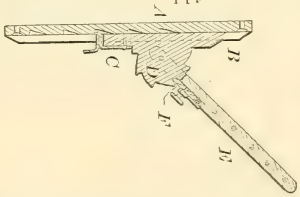

**88630**—H. M. Hall—*Sewing Machine Attachment.*



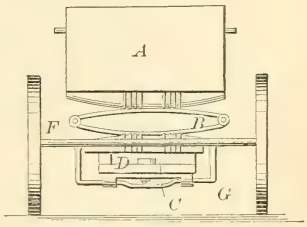

**88629**—I. S. Goolman—*Churn Power.*



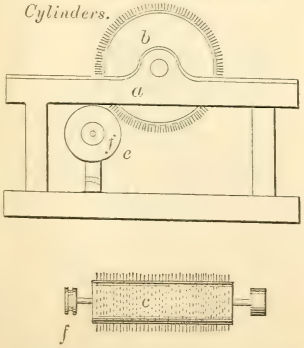

**88631**—Hawse & Shippy—*Clothes Dryer.*



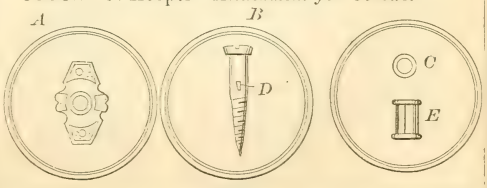

**88637**—S. Jackson—*Carriage.*



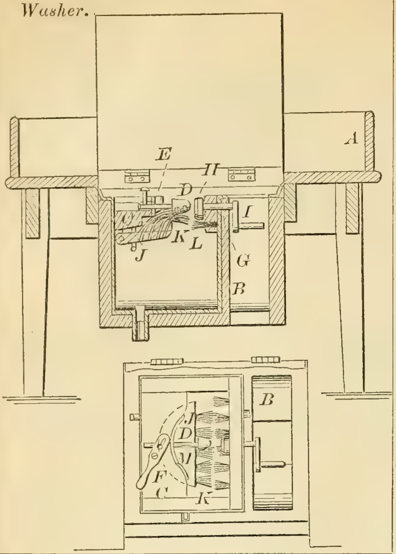

**88635**—W. B. Ingram—*For Grinding and Cleaning Card Cylinders.*



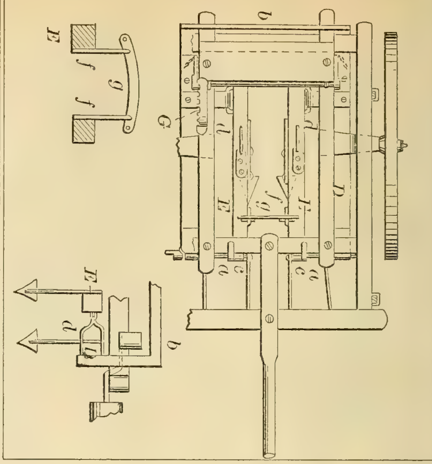

**88632**—J. Hooper—*Attachment for Screws.*



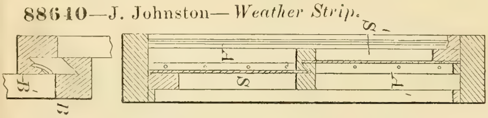
**88636**—T. Ireland—*Sink and Dish Washer.*



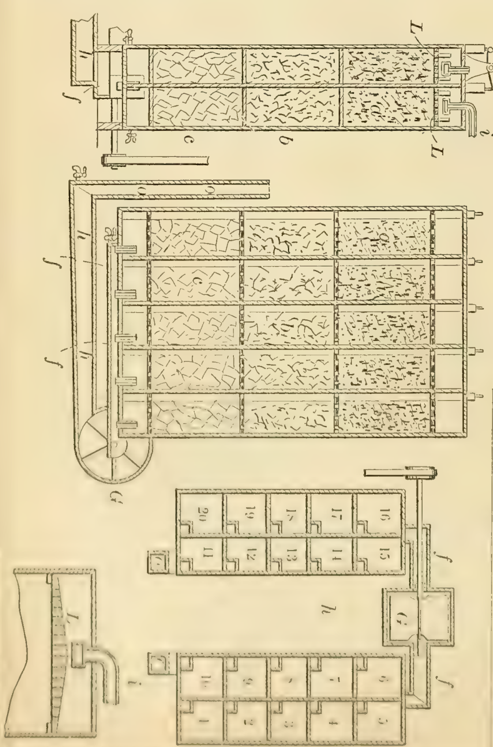
**88638**—J. B. Jay—*Cultivator.*



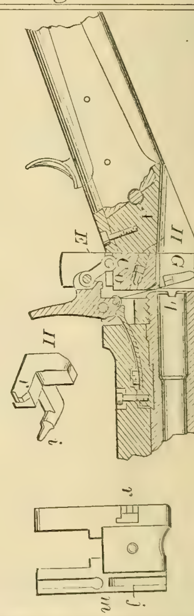
**88640**—J. Johnston—*Weather Strip.*



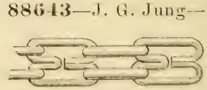
**88642**—F. E. Josel—*Vinegar Apparatus.*



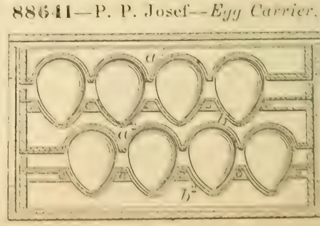
**88645**—R. S. Lawrence—*Fire Arm.*



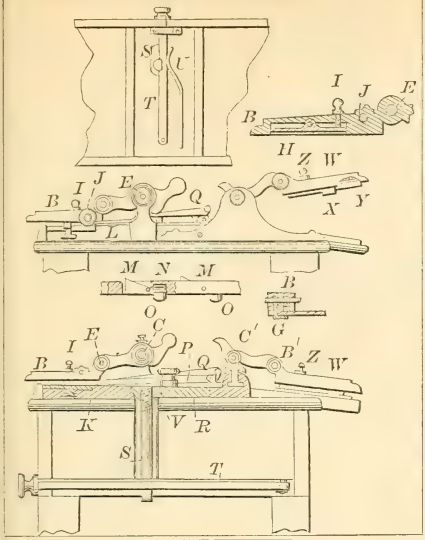
**88643**—J. G. Jung—*Chain.*



**88641**—P. P. Josef—*Egg Carrier.*

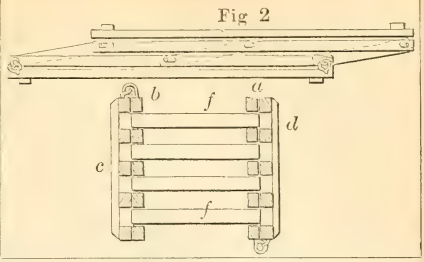


**88646**—J. Lick—*For Gilding.*

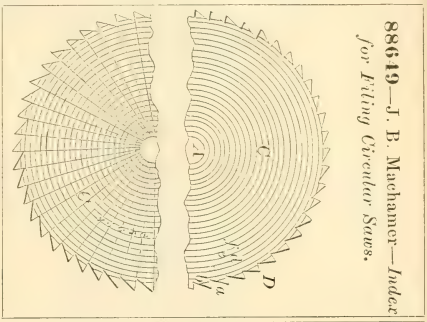


**88647**—Lindsey & Sullivan—*Fruit Crate.*

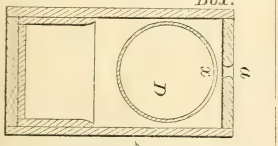
Fig 2



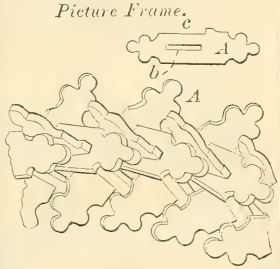
**88649**—J. B. Machamer—*Index for Filing Circular Saws.*



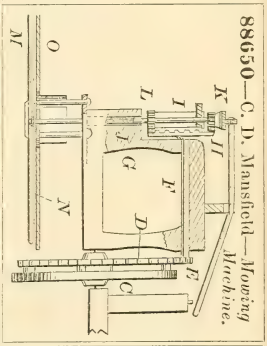
**88648**—R. H. Long—*Fare Box.*



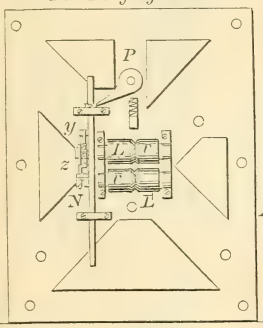
**88651**—D. W. Marshall—*Picture Frame.*

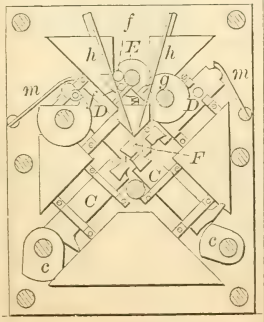


**88650**—C. D. Mansfield—*Mowing Machine.*

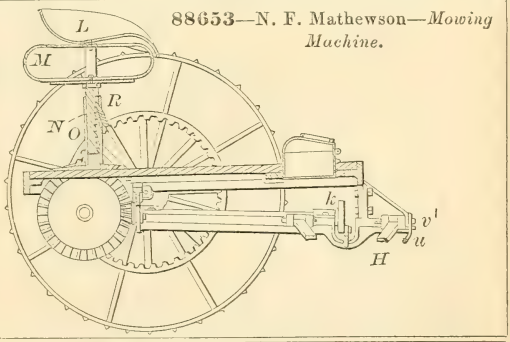


**88652**—H. W. Mather—*For Forging Nails.*

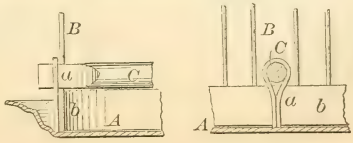




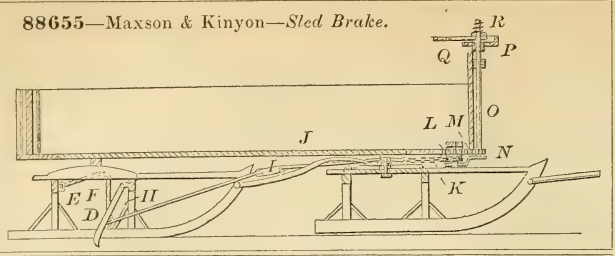
**88653**—N. F. Mathewson—*Mowing Machine.*



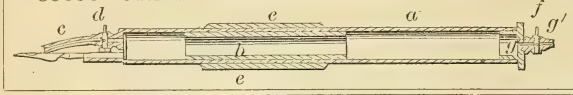
**88654**—J. Maxheimer—*Bird Cage.*



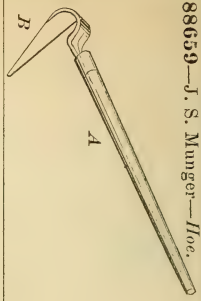
**88655**—Maxson & Kinyon—*Sled Brake.*



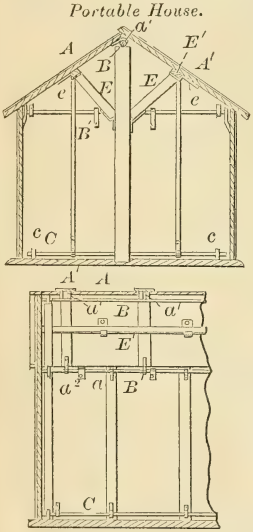

**88656**—Odermatt & Ettlin—*Fountain Pen.*



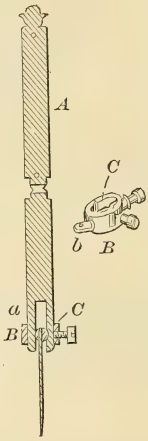

**88659**—J. S. Munger—*Hoe.*



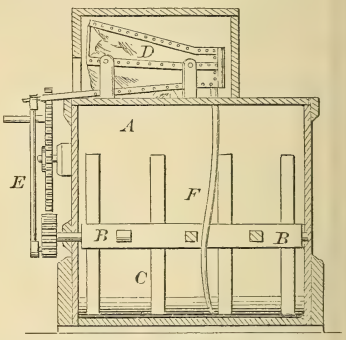

**88657**—W. R. Mears—*Portable House.*



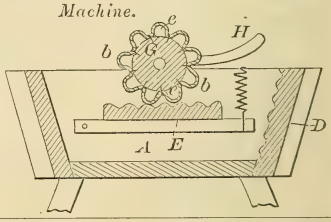

**88665**—Parham & Smith—*Needle Holder.*



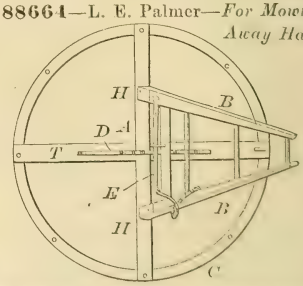

**88662**—J. E. Overacker—*Churn.*



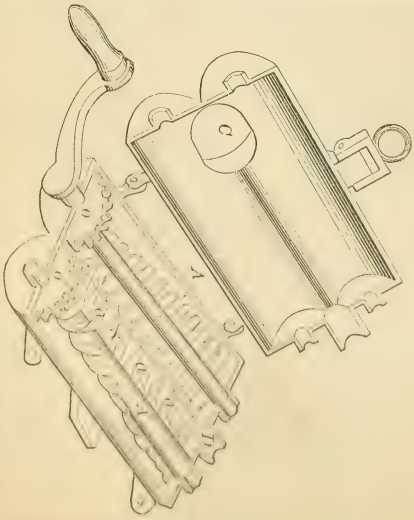

**88663**—G. N. Palmer—*Washing Machine.*



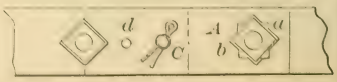

**88664**—L. E. Palmer—*For Mowing Away Hay.*



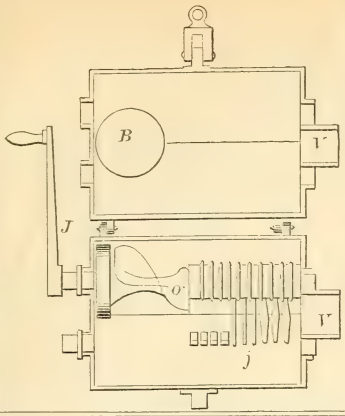

**88666**—J. G. Perry—*Meat Cutter.*



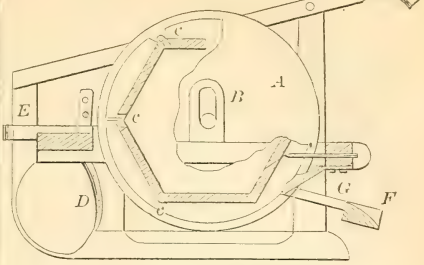

**88668**—P. Philippi—*Nut Locking Device.*



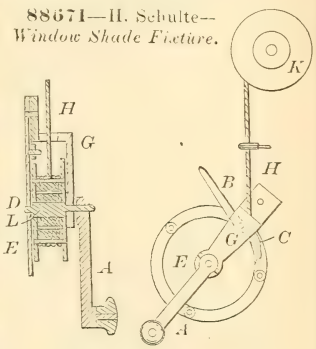
88667—J. G. Perry—*Meat Cutter.*



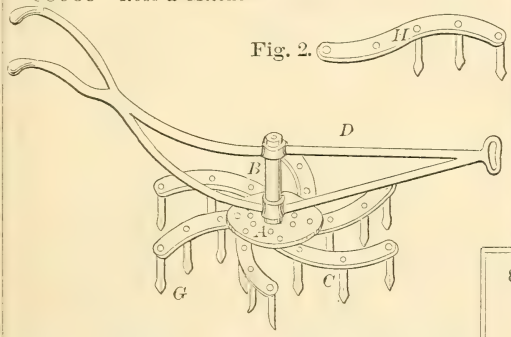

88670—D. H. A. Sanders—*Cotton Seed Planter.*



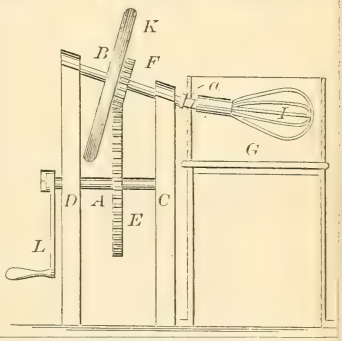

88671—H. Schulte—*Window Shade Fixture.*



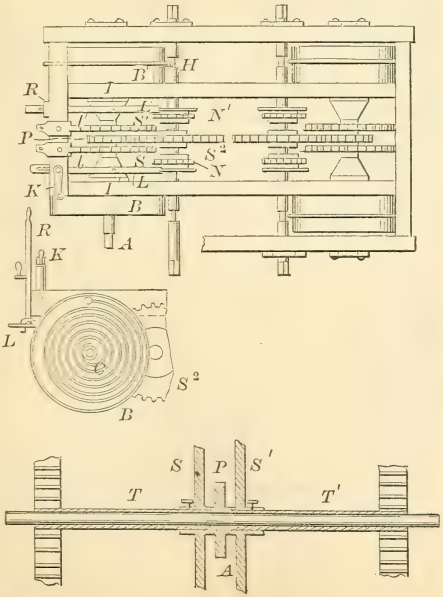

88669—Ross & Mitchell—*Harrow and Cultivator.*



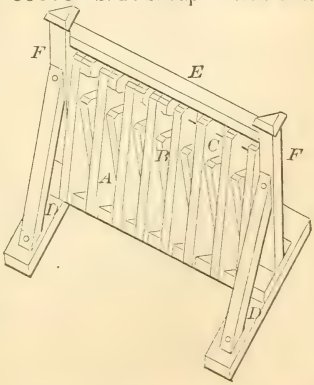

88672—C. F. A. Seitz—*Egg Beater.*



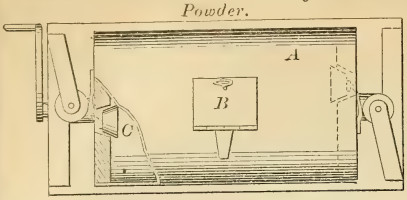

88675—J. F. Stokes—*Car Starter.*



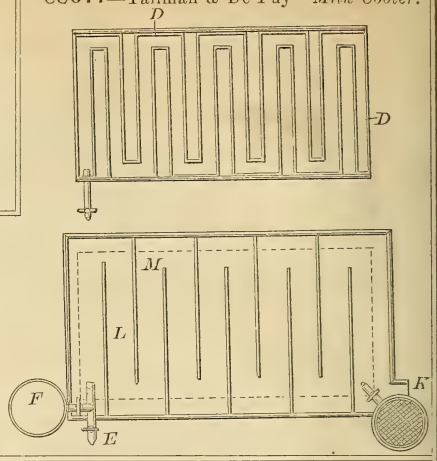

88673—S. B. Shoup—*Flood Gate.*



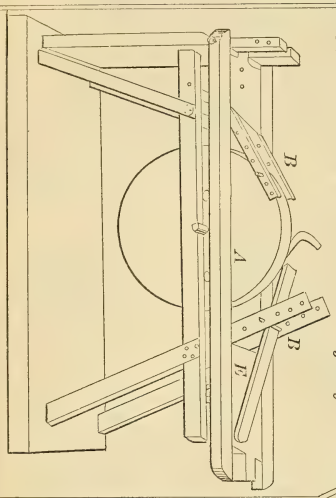
88674—W. Silver—*For Blasting and other Powder.*



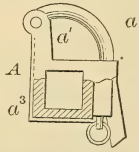

88677—Tallman & De Puy—*Milk Cooler.*



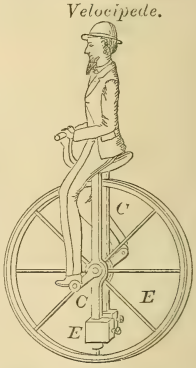

88679—H. K. Trask—*For Grinding Edged Tools.*




88676—Z. T. Sweet—*Clip for Neck Yokes*

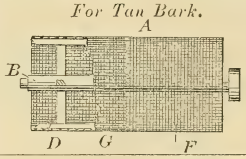



88683—T. W. Ward—*Velocipede.*

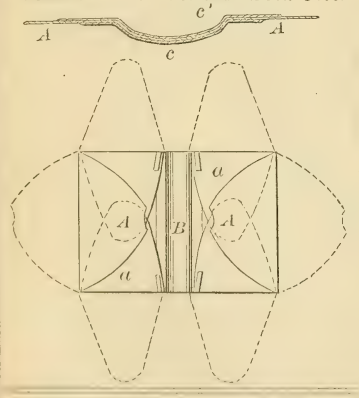



88682—H. Twitchell—*Dental Plate.*

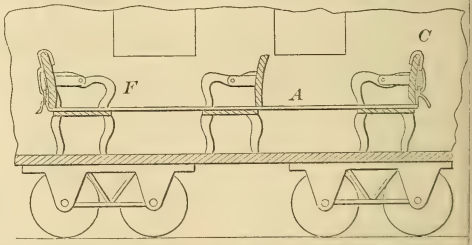
88578—N. S. Thomas—*For Tan Bark.*



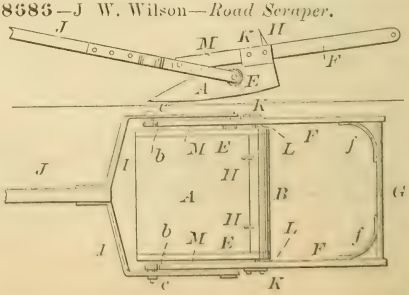

88584—W. C. Wendell—*Book Cover.*




88585—G. W. Williamson—*Railway Car Couch.*

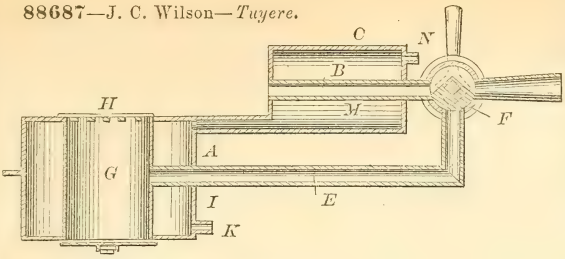



88586—J W. Wilson—*Road Scraper.*

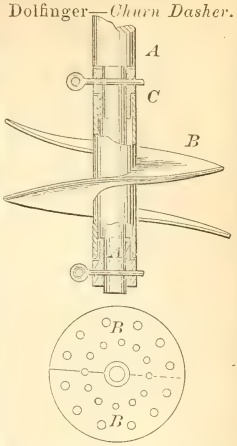



88689—J. Absterdam—*Projectile.*

**88687**—J. C. Wilson—*Tuyere.*




**88688**—Withers & Dolfinger—*Churn Dasher.*




**88690**—P. Barker—*Grain Separator.*

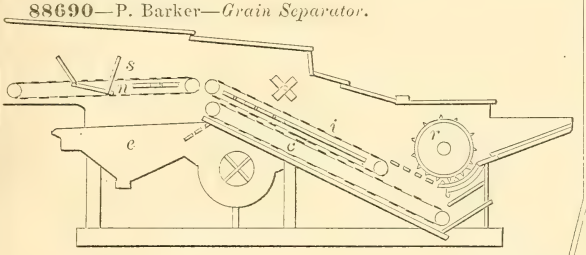
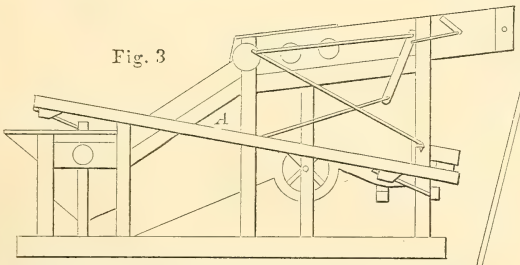
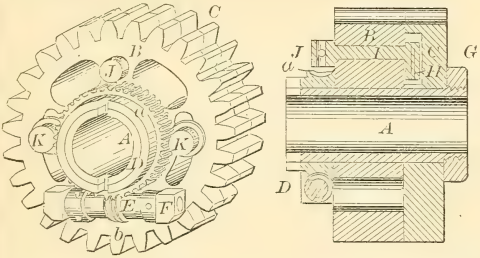



Fig. 3

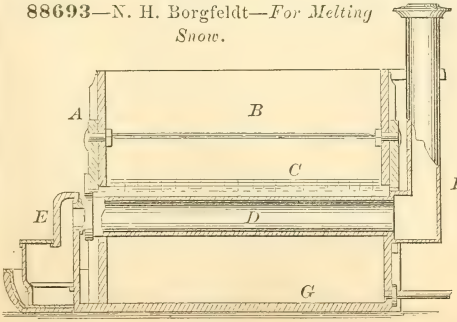



**88692**—J. Bond—*Life Preserving Apparatus.*

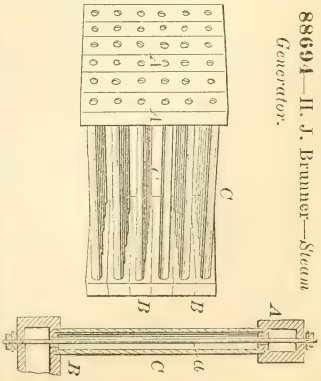
**88691**—G. S. Barton—*For Adjusting Gearing.*



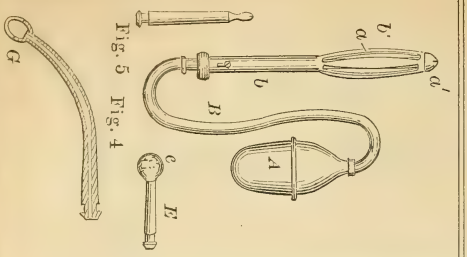

**88693**—N. H. Borgfeldt—*For Melting Snow.*



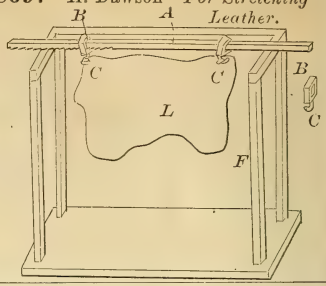

**88694**—H. J. Brunner—*Steam Generator.*



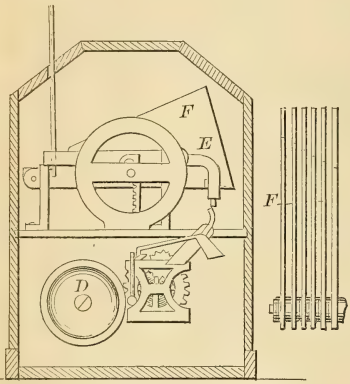
**88695**—W. J. Davidson—*Syringe.*



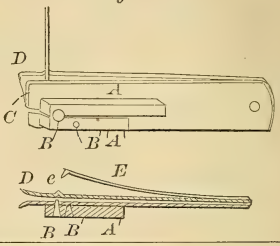

**88697**—H. Dawson—*For Stretching Leather.*



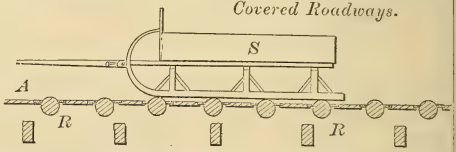

**88698**—C. Dion—*Fire Alarm.*



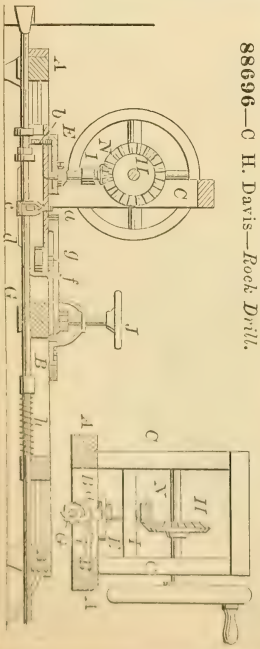

**88699**—H. W. Dopp—*Needle Threader for Sewing Machines.*



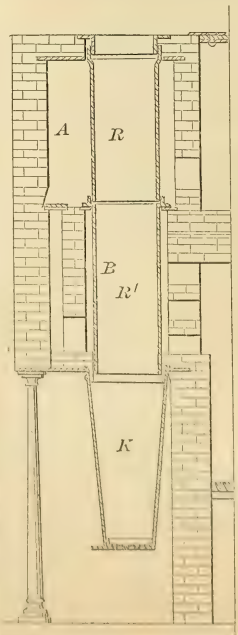

**88704**—J. B. Foote—*Sled Way Attachment for Covered Roadways.*



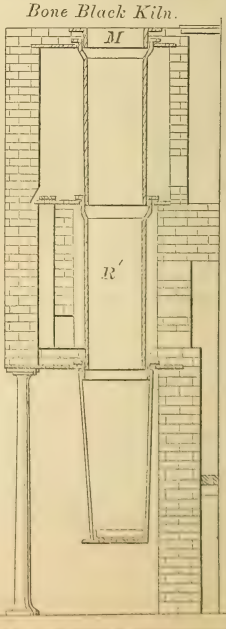

**88696**—C H. Davis—*Rock Drill.*



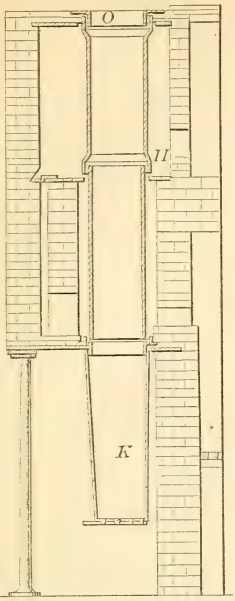

**88700**—E. P. Eastwick—*Bone Black Kiln.*



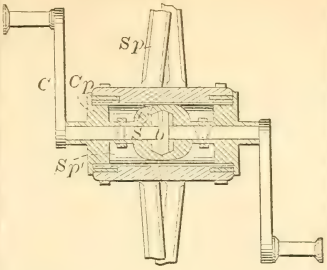

**88701**—E. P. Eastwick—*Bone Black Kiln.*



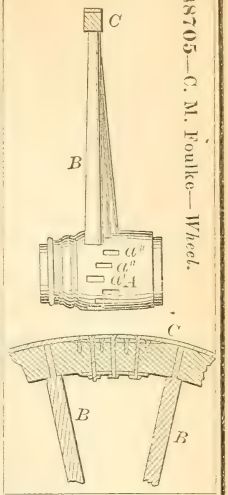
88702—E. P. Eastwick—*Bone Black Kiln.*



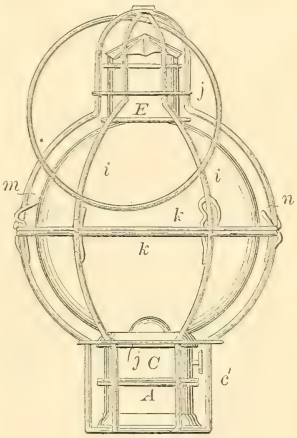

88703—H. J. Ferguson—*Velocipede.*



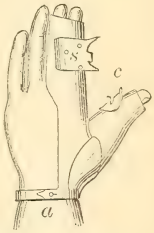

88705—C. M. Foulke—*Wheel.*



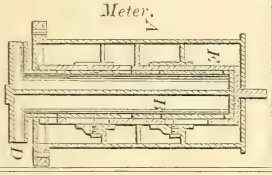

88713—T. Houghton—*Lantern.*



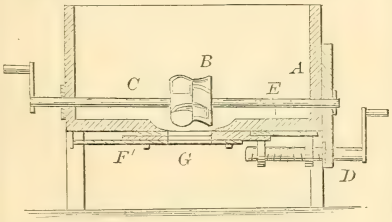

88708—H. L. Hall—*Corn Husker.*



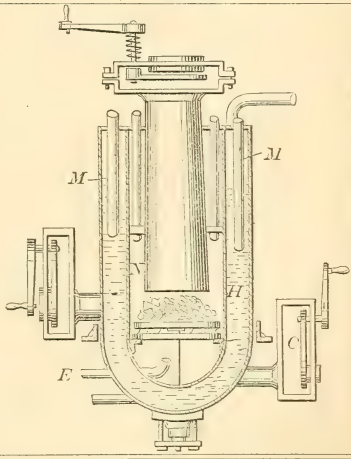

88709—A. Heaton—*Fluid Meter.*



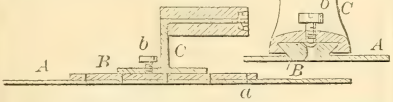

88710—P. F. Hodges—*Grain Drill.*



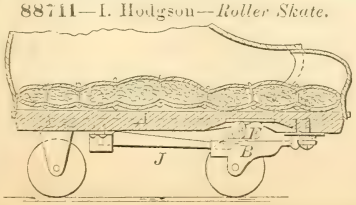

88707—Guthrie & Mason—*Steam Generator.*



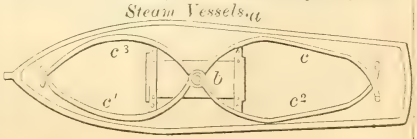

88712—P. J. Hogan—*Trowel.*



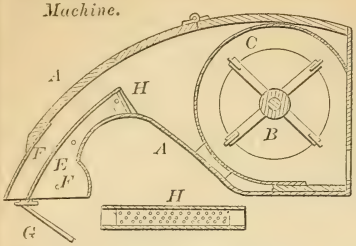

88711—I. Hodgson—*Roller Skate.*



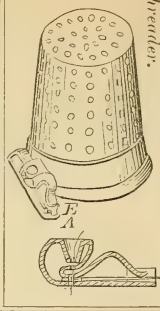

88714—J. Howe, Jr.—*Steam Engineery for Steam Vessels.a*



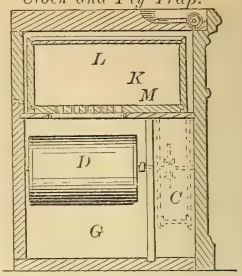
**88716**—S. D. Huffman—*Threshing Machine.*



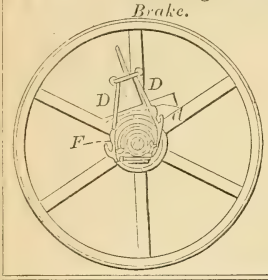

**88717**—A. Hunter—*Needle Threader.*



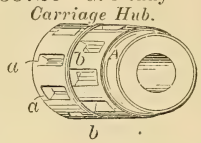

**88718**—C. Kallmann—*Clock and Fly Trap.*



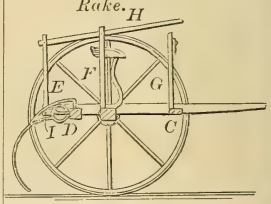

**88721**—A. Kessberger—*Wagon Brake.*



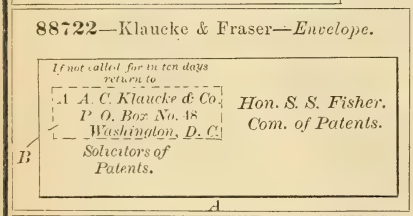

**88720**—G. Kenny—*Carriage Hub.*



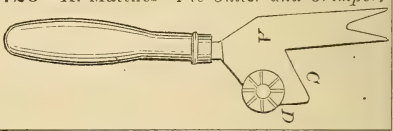

**88719**—C. P. Kelly—*Horse Rake.*



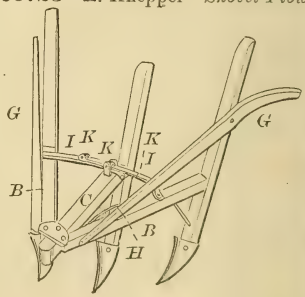

**88722**—Klaucke & Fraser—*Envelope.*



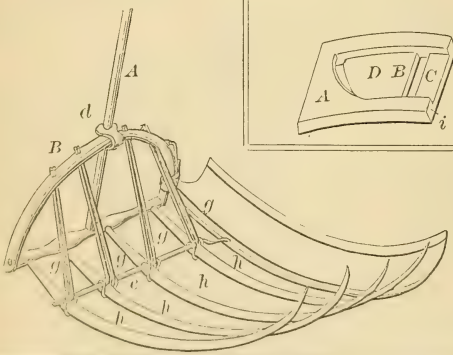

**88726**—H. Matthes—*Pie Cutter and Crimper.*




**88723**—E. Knepper—*Shovel Plow.*



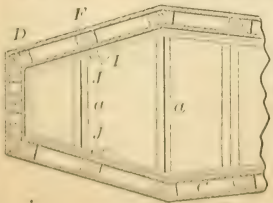

**88724**—W. H. Locke—*Grain Cradle.*

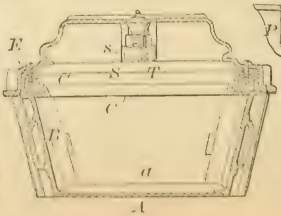



**88727**—W. M. Morris—*Cotton Bale Tie.*

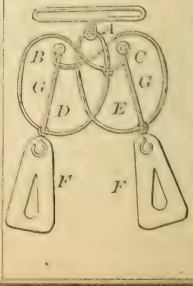



**88728**—G. Nearstheimer—*Coffin.*

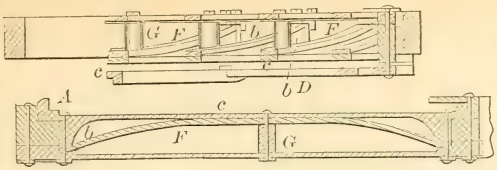


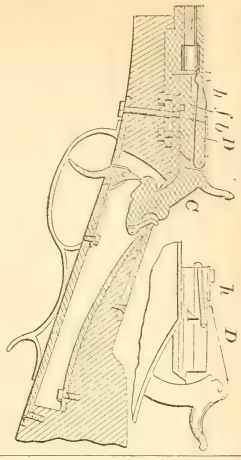
**88731**—G. H. Palmer—*Suspenders.*



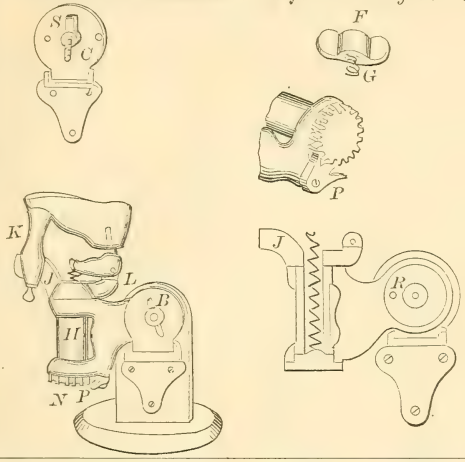
**88729**—G. W. Neill—*Piano Forte Frame.*



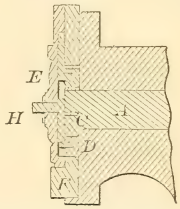

**88730**—J. D. S. Newell—*Fire Arm.*



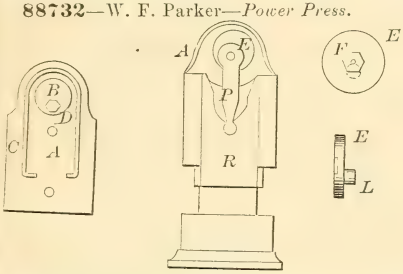

**88735**—J. E. Plummer—*Jack for Finishing Shoes.*



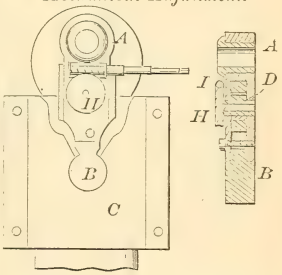

**88733**—R. B. Perkins—*Mechanical Adjustment.*



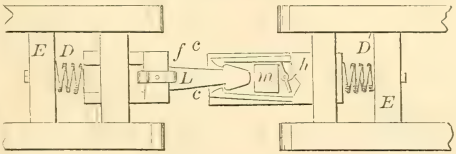

**88732**—W. F. Parker—*Power Press.*



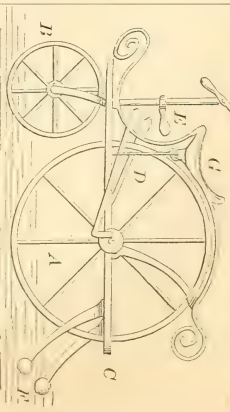

**88734**—R. B. Perkins—*Mechanical Adjustment.*



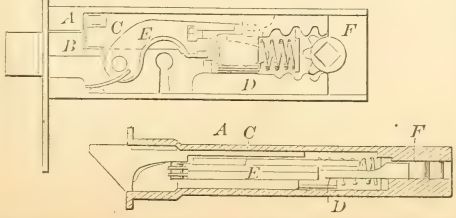

**88736**—A. Ray—*Car Coupling.*



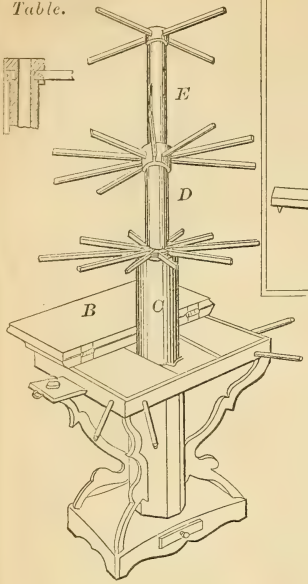

**88738**—J. B. Read—*Velocipede.*



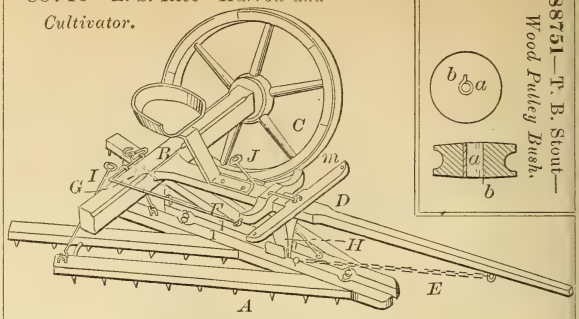

**88737**—F. Raymond—*Latch and Lock.*



**88739**—W. Reichenbach—*Clothes Dryer and Ironing Table.*



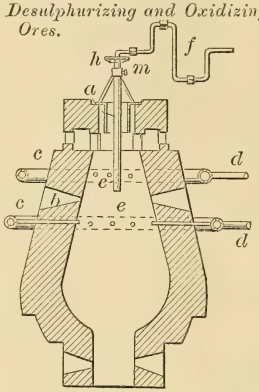

**88740**—E. S. Rice—*Harrow and Cultivator.*



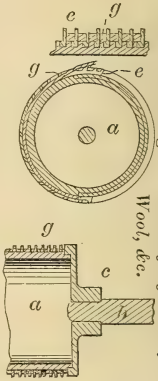

**88751**—T. B. Stout—*Wood Pulley Bush.*




**88741**—J. M. Rohrer—*For Desulphurizing and Oxidizing Ores.*

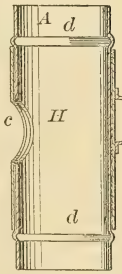



**88742**—C. G. Sargent—*Burring Cylinder for Wool, &c.*

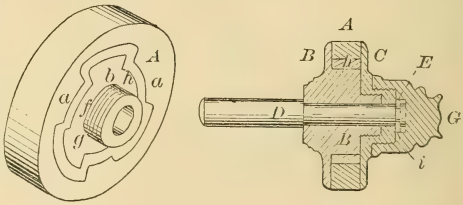



**88743**—Sax & Kear—*Car Wheel.*

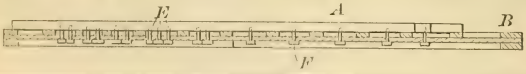
**88744**—H. J. Sayers—*Damper.*



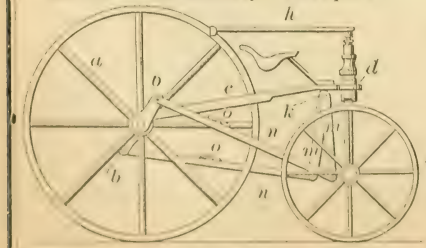

**88748**—C. S. Stearns—*Carriage Wheel.*

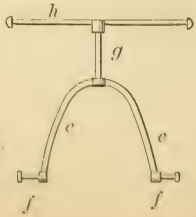



**88749**—C. F. Th. Steinway—*Sound Board for Piano Fortes.*



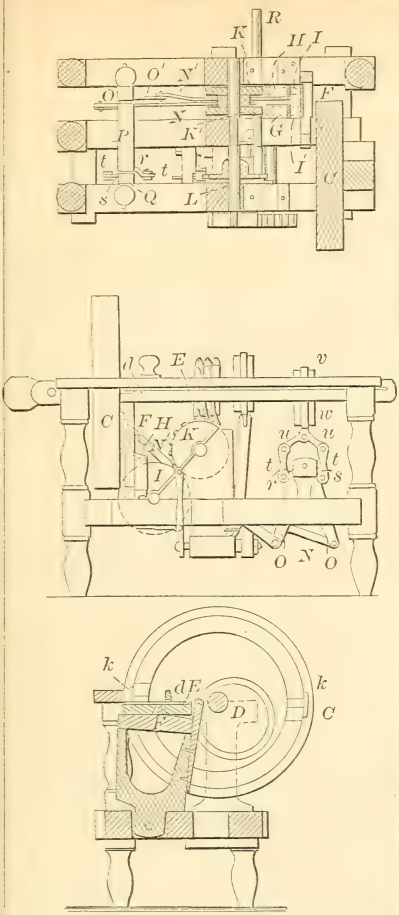

**88750**—C. W. Stickney—*Velocipede.*



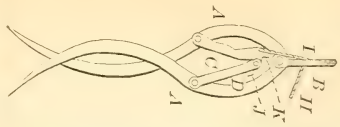




**88752**—F. Straus—*Corset Clasp.*

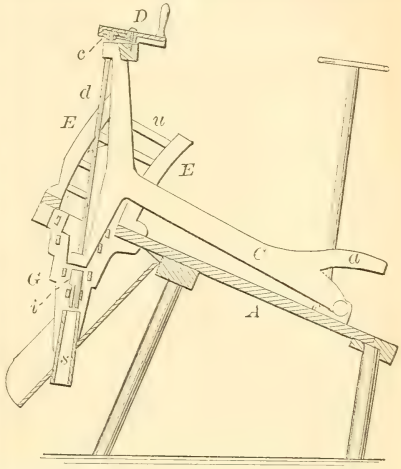
**88753**—J. Taggart—*For Wrought Nails.*



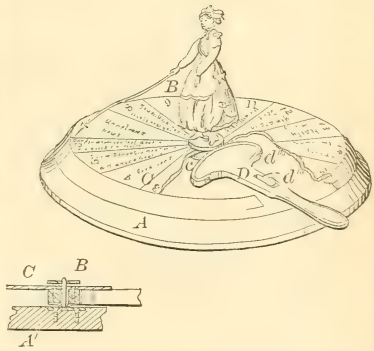
**88754**—A. G. Thomas—*Horse Hay Fork.*



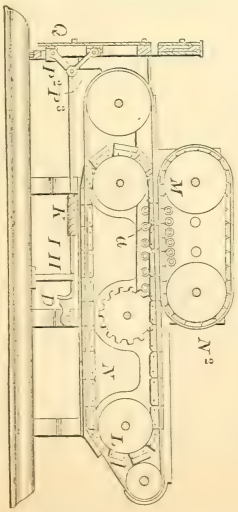
**88755**—N. Thomas—*Apple Slicer and Corer.*



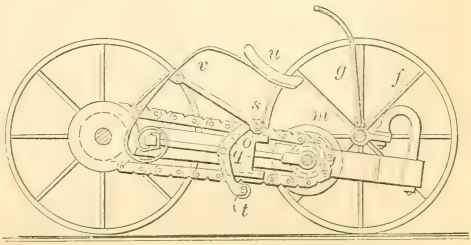
**88756**—E. Trump—*Parlor Game.*



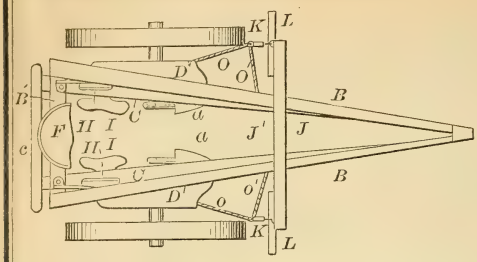
**88757**—W. H. Watson—*For Sheeting and Pressing Tobacco.*

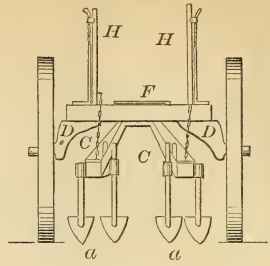


**88759**—J. W. Weston—*Velocipede.*

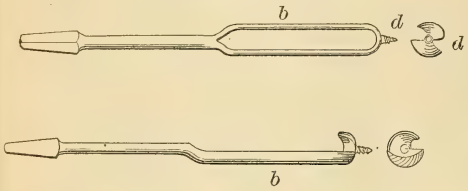


**88758**—H. J. Wattles—*Cultivator.*

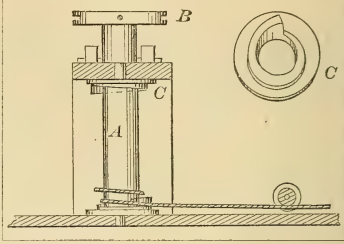


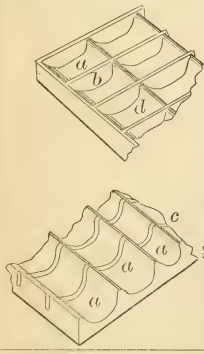

**88760**—C. Whitehouse—*Bit and Auger.*



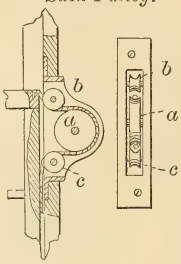

**88761**—C. L. Willis—*Capstan.*



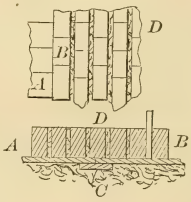

**88762**—B. O. Woods—*Type Case.*




**88763**—A. F. Hines—*Sash Pulley.*

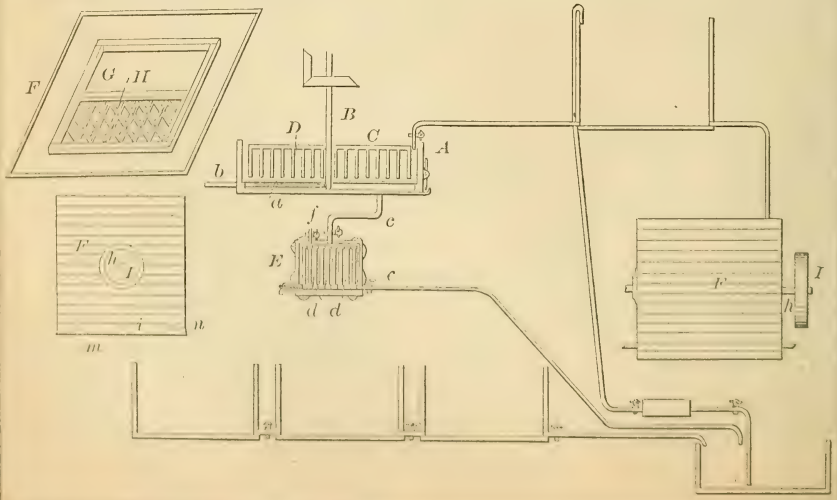



**88765**—D. L. De Golyer—*Pavement.*

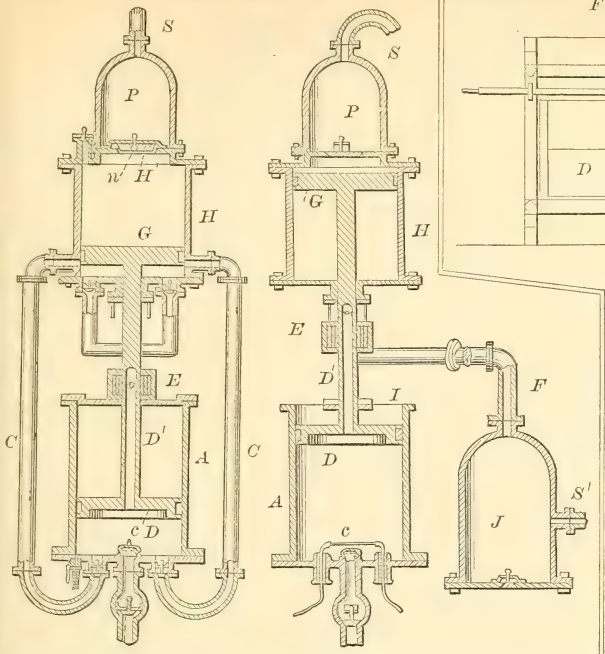



**88766**—J. H. Morris—*Weather Strip.*

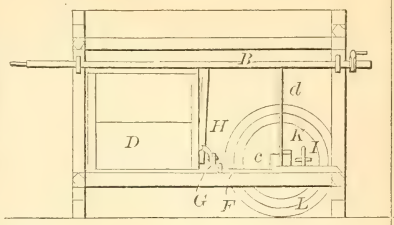
**88764**—E. Lynch—*For Tanning.*

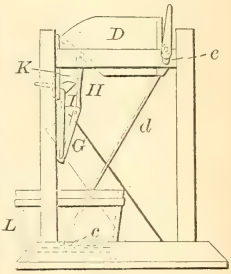


**88767**—J. B. Atwater—*Motive Power.*

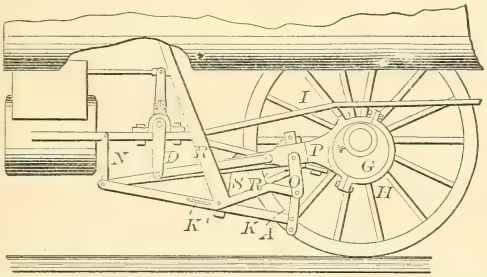



**88768**—A. D. Barrett—*Feeding Trough For Horses.*

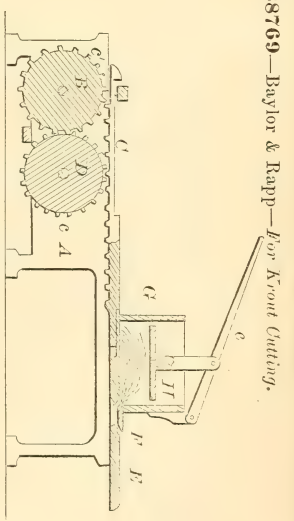


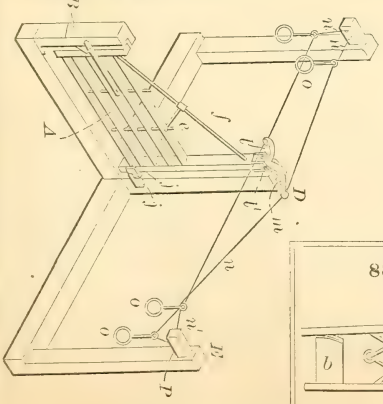

**88771**—R. Bowers—*Valve Gear.*



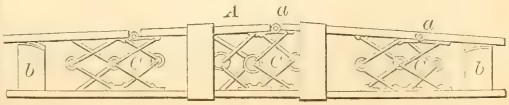

**88769**—Baylor & Rapp—*For Kront Cutting.*



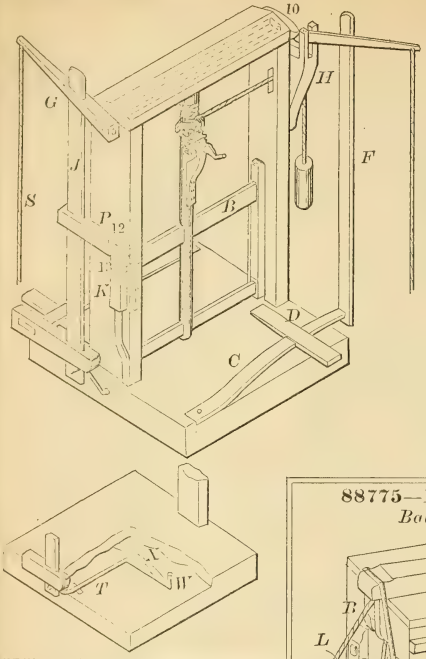

**88770**—J. Behel—*Gate.*



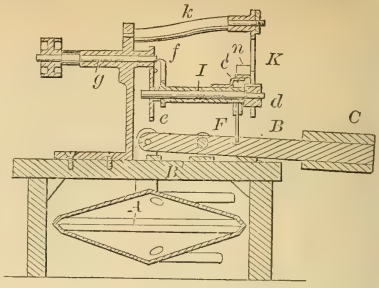

**88772**—C. A. Brigham—*Bed Bottom.*



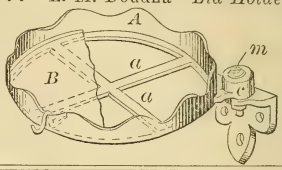
88773—L. D. Brooks—*Gate.*



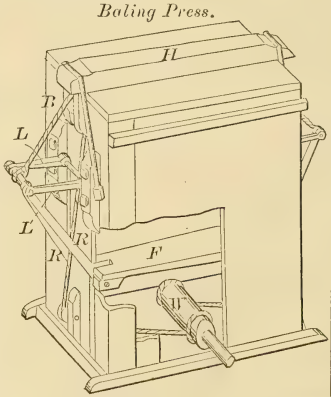

88774—D. L. F. Chase—*Boiler Feeder.*



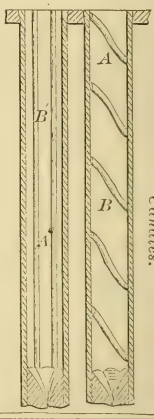

88777—L. M. Doudna—*Lid Holder.*



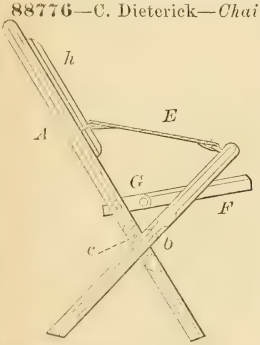

88775—P. K. Dederick—*Baling Press.*



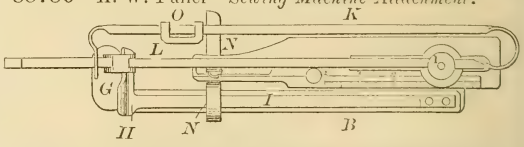

88779—Field & Nation—*For Ornamenting Candles.*



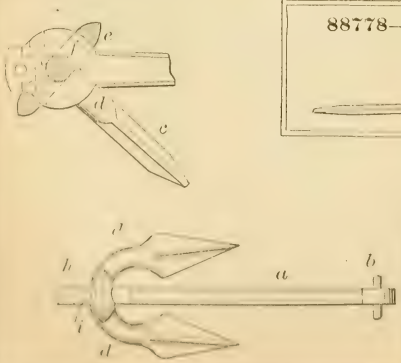

88776—C. Dieterick—*Chair.*



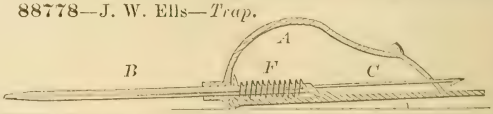

88780—H. W. Fuller—*Sewing Machine Attachment.*



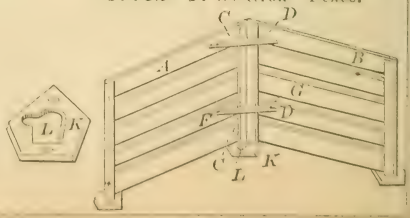

88781—J. D. Greene—*Anchor.*



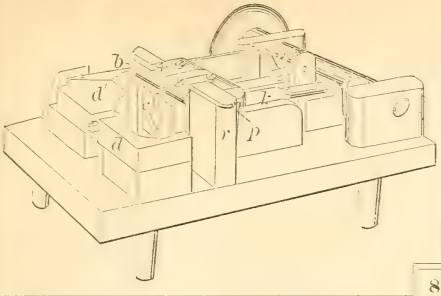

88778—J. W. Ells—*Trap.*



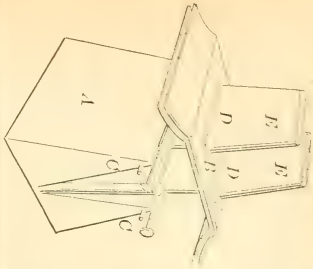

88782—F. W. Groff—*Fence.*



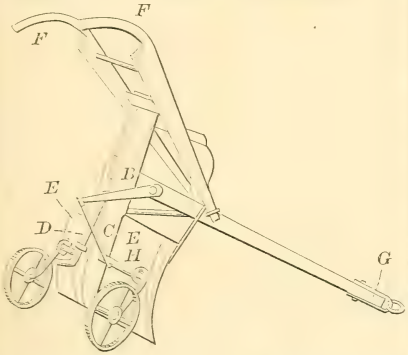
**88783**—M. Hardaway—*Bolt Machine.*



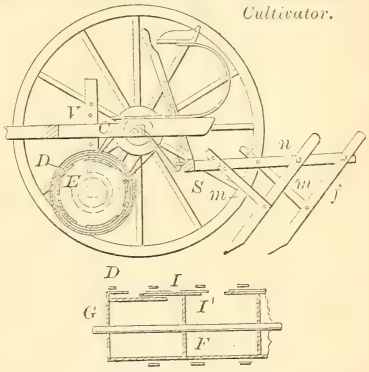

**88784**—M. E. Hatch—*Lamp.*



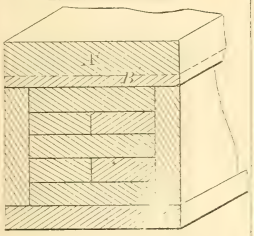

**88785**—J. Y. Herston—*Earth Scraper.*



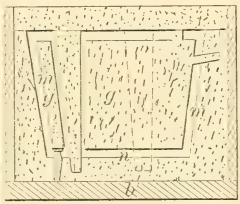

**88787**—Hewitt & Gorham—*Seeder and Cultivator.*



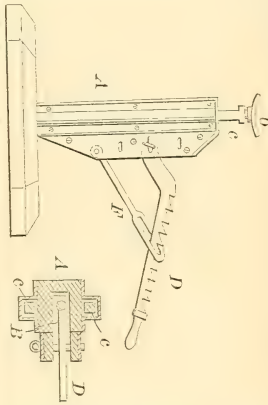

**88786**—C. Hewitt—*Railroad Rail.*



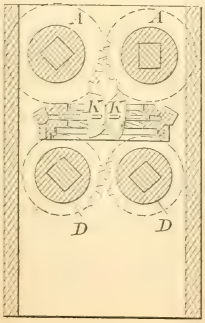
**88788**—W. M. Johnston—*For Casting Tuyeres.*



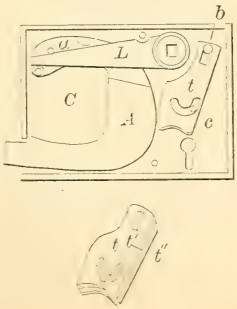

**88789**—Keeler & Bickert—*Carriage Jack.*



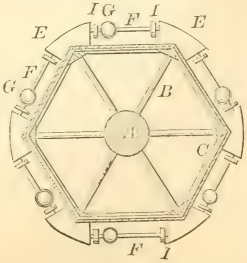

**88790**—E. Kelley—*Corn Sheller.*



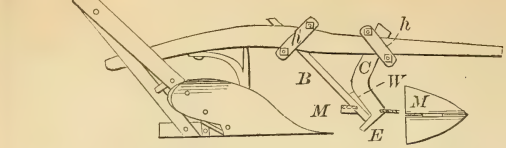

**88791**—J. B. Kelley—*Knob Latch and Lock.*



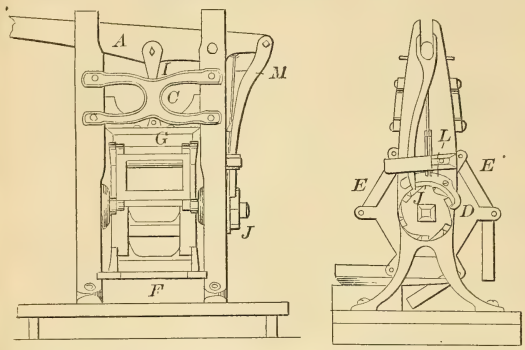

**88792**—I. B. Ketchum—*Flour Bolt.*



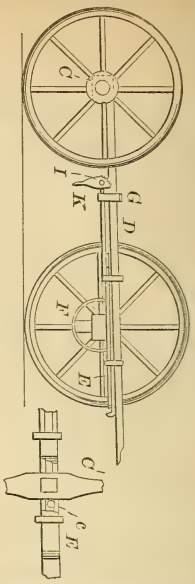
88794—B. F. Masters—*Plow.*



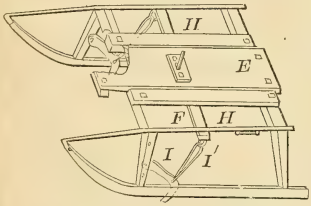

88795—C. Messenger—*For Roofing Tile.*



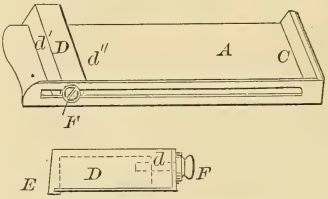

88796—C. H. Mills—*Brake.*



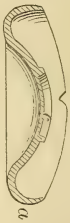

88797—S. A. Mitchell—*Brake.*



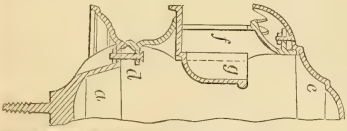

88800—F. W. Murray—*Composing Stick.*



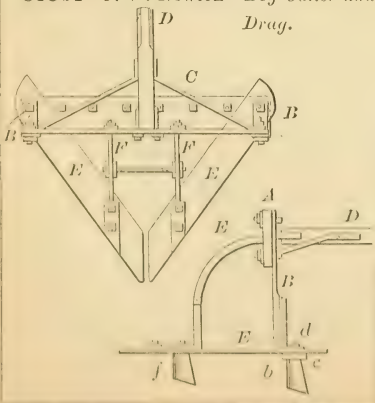

88798—G. Morrison—*Plate for Artificial Teeth.*



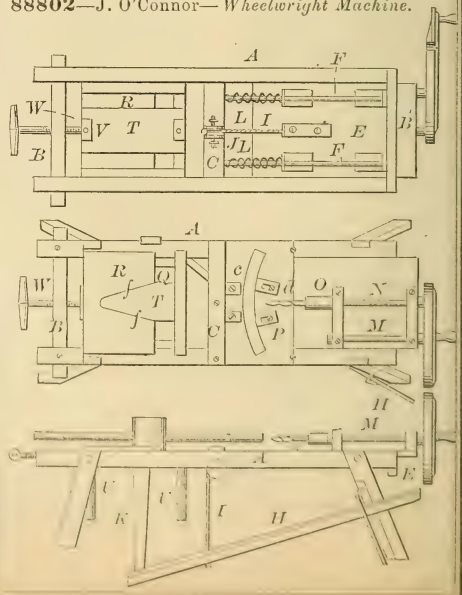

88799—J. Murdock—*Bird House.*



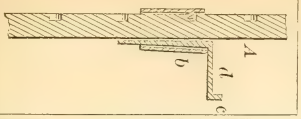

88801—J. W. Newton—*Bog Cutter and Drag.*



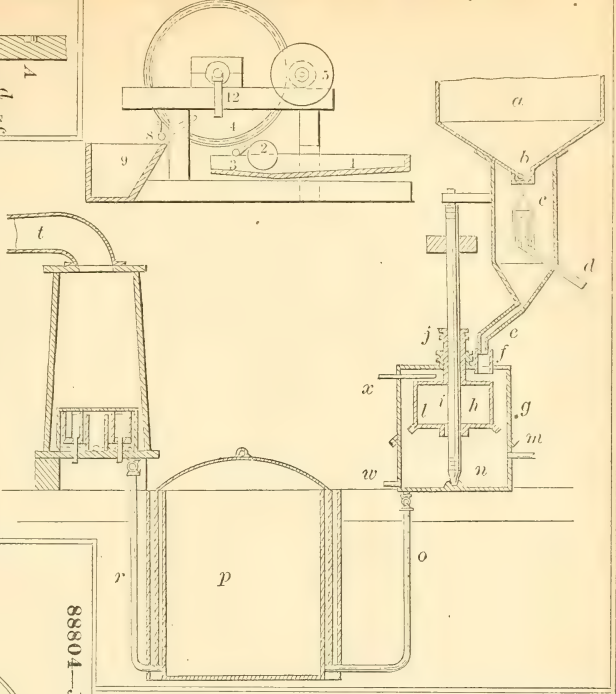

88802—J. O'Connor—*Wheelwright Machine.*



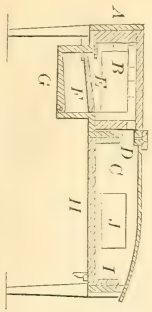
**88803**—Page & Miller—*Stilts.*



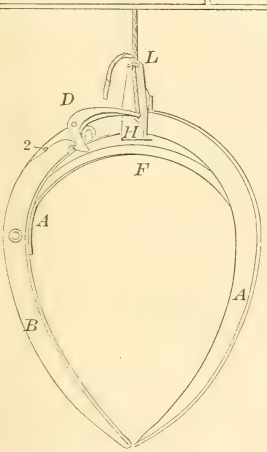
**88807**—J Pickles—*For the Extract of Bark.*



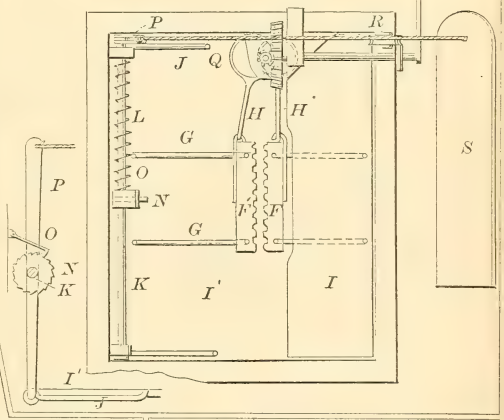
**88805**—E. G. Paull—*Furnace.*



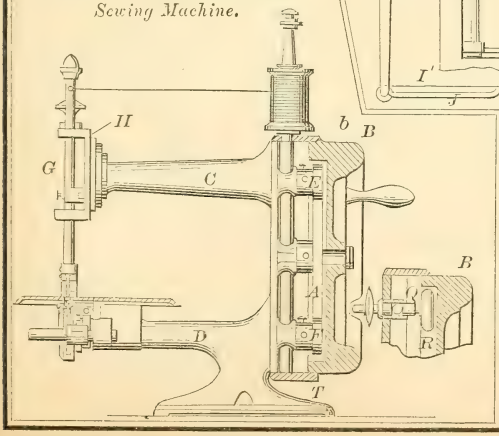
**88804**—J. A. Park—*Horse Hay Fork.*



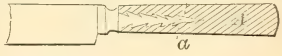
**88806**—S. B. Peugh—*Washing Machine.*



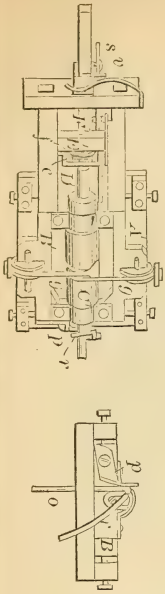
**88808**—Pollack & Schmidt—*Sewing Machine.*



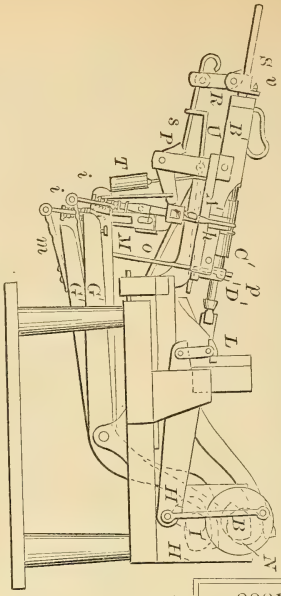
**88810**—C. L. Robertson—*Cutlery.*



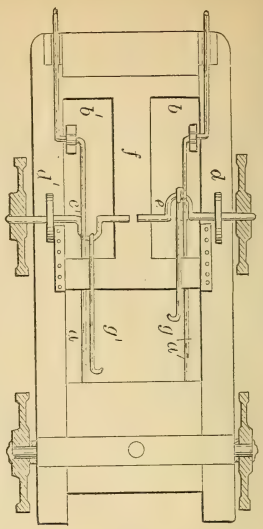
**88811**—C. L. Robertson—*Comb.*



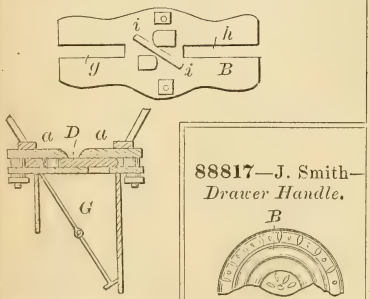
88809—J. R. Richardson—*Nail Plate Feeder.*



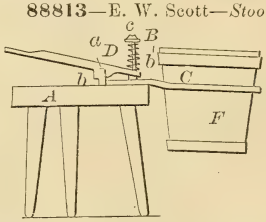
88815—S. M. Skidmore—*Velocipede.*

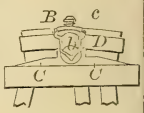


88812—A. Runstetler—*Corn Planter.*

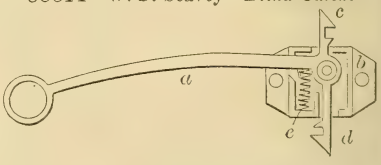


88813—E. W. Scott—*Stool.*





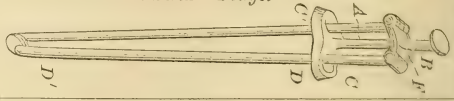
88814—W. F. Seavey—*Blind Catch.*



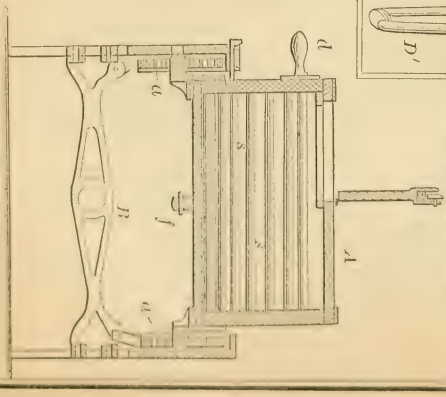
88817—J. Smith—*Drawer Handle.*



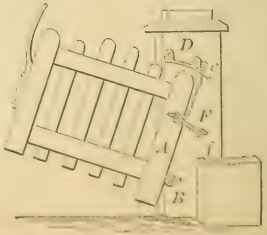
88820—F. Stith—*Tongs.*



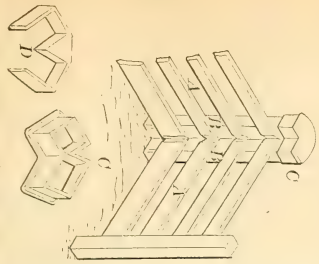
88816—H. E. Smith—*Washing Machine.*



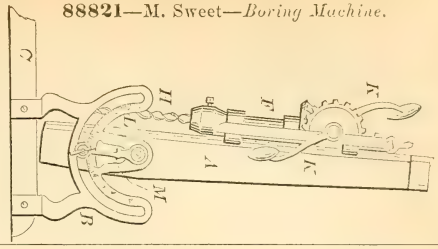
88818—W. W. Sowles—*Gate.*



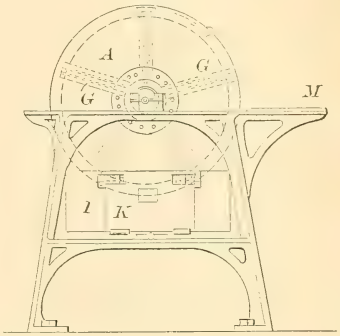
**88819**—T. Stanford—*Fence.*



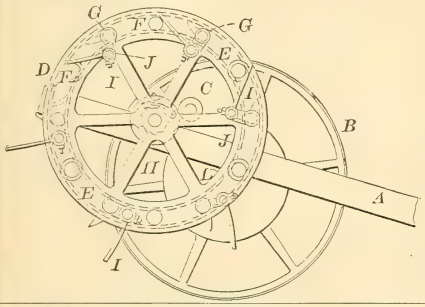
**88821**—M. Sweet—*Boring Machine.*



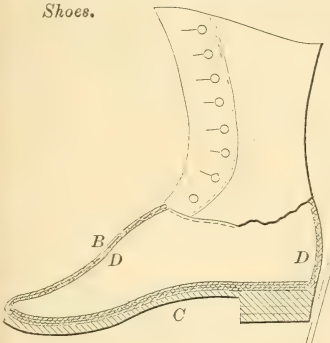
**88823**—W. Thompson—*For Mixing Tea.*



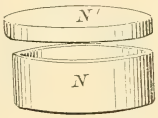
**88822**—B. F. Taft—*Hay Spreader.*



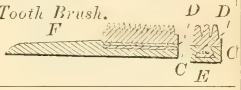
**88824**—W. H. Towers—*Boots and Shoes.*



**88827**—Wheeler & Jerome—*Paper Boxes from Pulp.*



**88825**—W. B. Watkins—*Tooth Brush.*



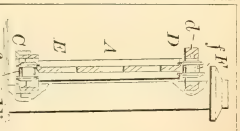
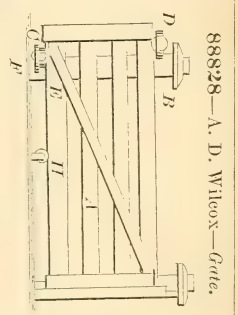
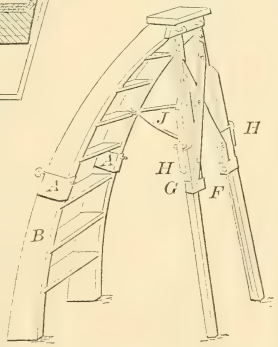


Fig. 2

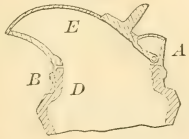
**88828**—A. D. Wilcox—*Gate.*



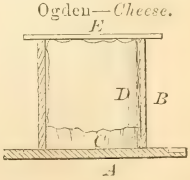
**88831**—E. R. Austin—*Step Ladder.*



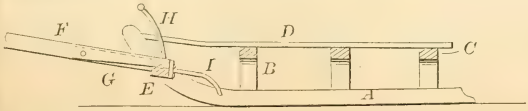
**88829**—H. Wright—*Jug Top.*



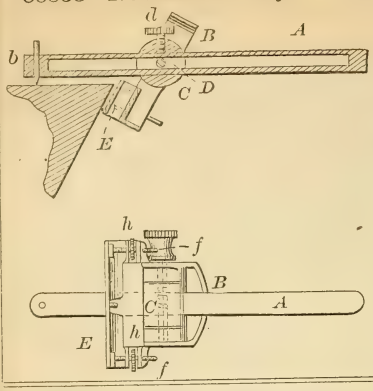
**88830**—Andrews & Ogden—*Cheese.*



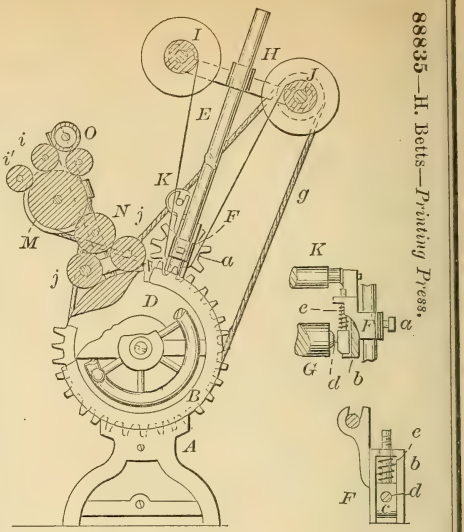
**88832**—S. W. Barber—*Brake.*



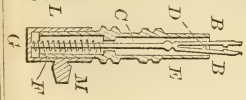
**88833**—T. E. Barrow—*Gauge.*




**88835**—H. Betts—*Printing Press.*

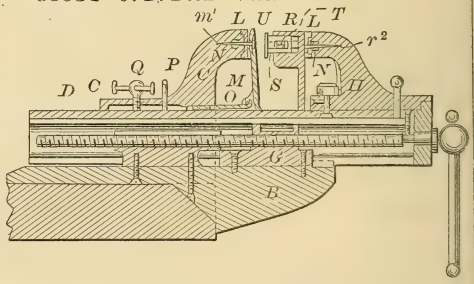



**88836**—J. S. Birch—*Watch Key.*

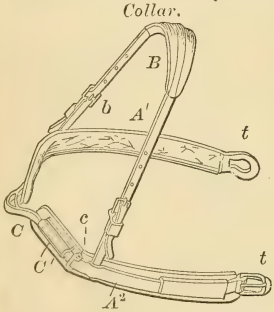



**88837**—P. Blake—*Die.*

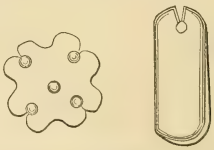
**88834**—J. D. Beck—*Vise.*



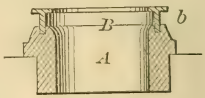

**88838**—G. W. Blaksley—*Breast Collar.*



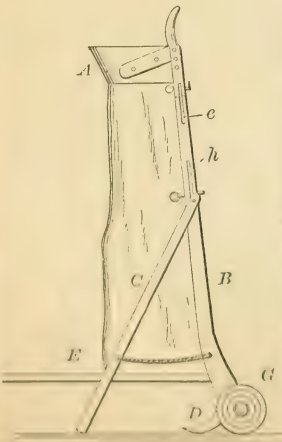

**88839**—C. A. Bogert—*Knife Sharpener.*



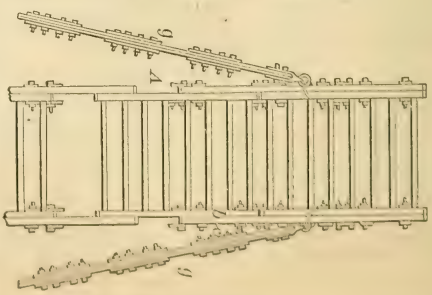
**88840**—J. Booth—*Ring for Spinning Machines.*



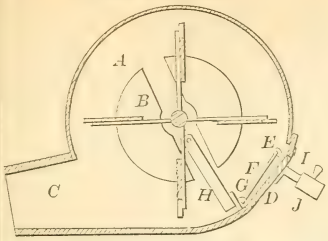

**88841**—W. Brocklesby, Jr.—*Hand Truck.*



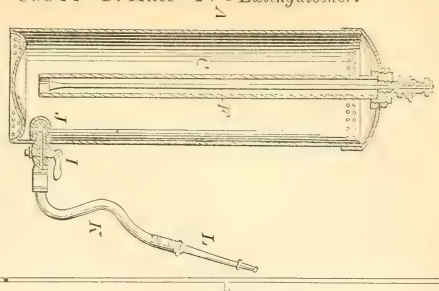

**88842**—M. T. Burbank—*Ladder.*



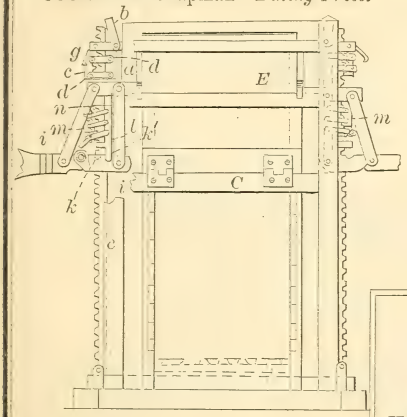
**88843**—J. & W. H. Butterworth—*Grain Fan Blast.*

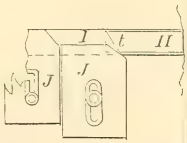



**88844**—D. Miles—*Fire Extinguiesher.*

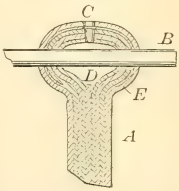



**88846**—N. Chapman—*Baling Press.*

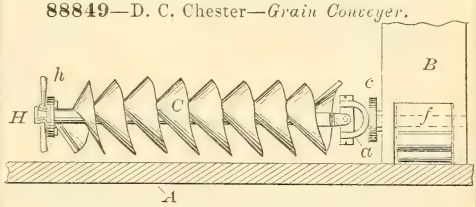


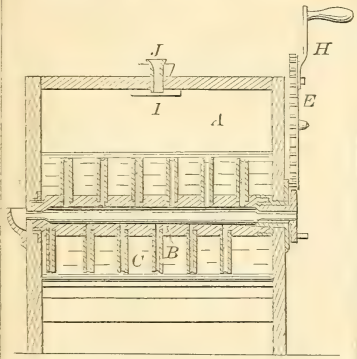

**88845**—A. H. Carroll—*Loom Picker.*



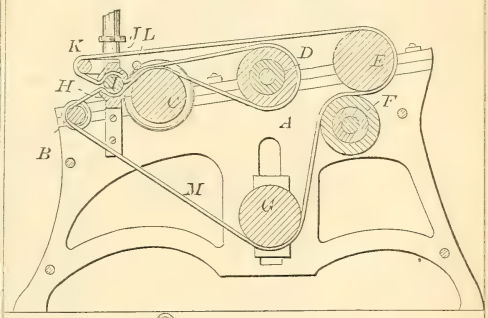

**88849**—D. C. Chester—*Grain Conveyer.*



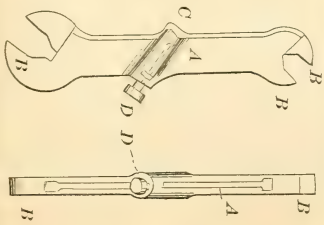

**88847**—N. Chapman—*Churn.*

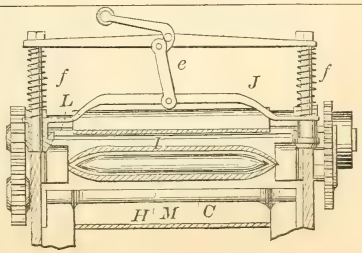



**88850**—R. M. Cole—*Cigar Machine*

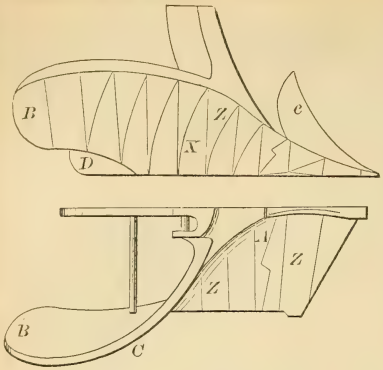



**88848**—J. Charlton—*Wrench.*

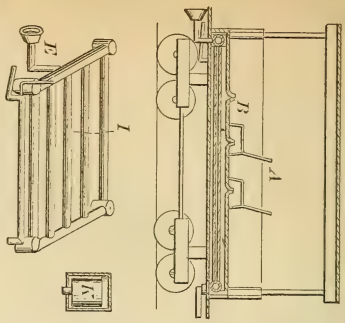


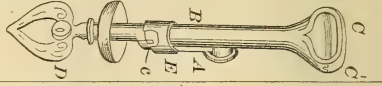
88851—W. S. Colwell—*Plow.*



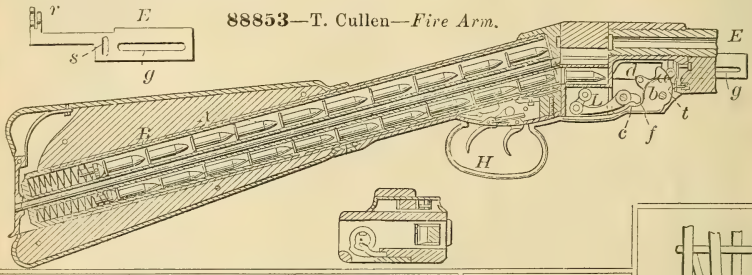

88852—A. C. Crary—*For Warming Cars.*



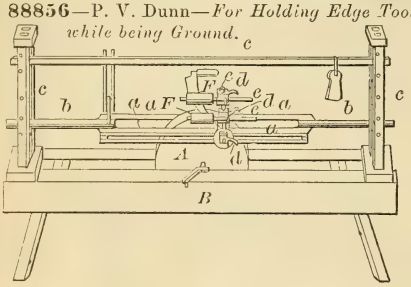

88854—De Mahy & Cross—*Vapor Burner.*



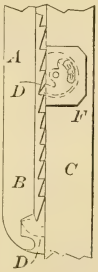

88853—T. Cullen—*Fire Arm.*



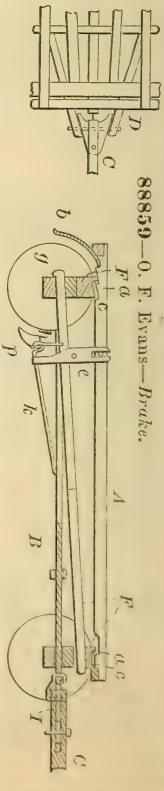

88856—P. V. Dunn—*For Holding Edge Tools while being Ground.*




88855—D. M. Donehoo—*Sash Holder.*




88859—O. F. Evans—*Brake.*




88860—R. Evans—*Shoe.*

Fig. 1

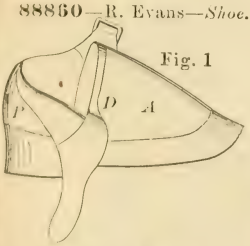
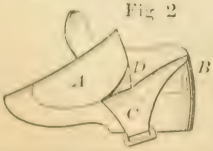
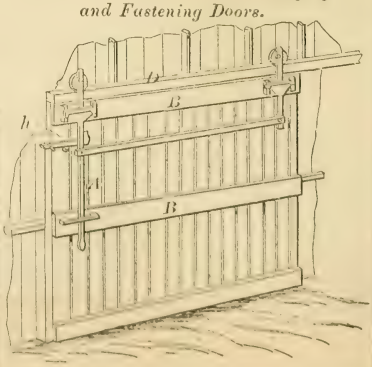


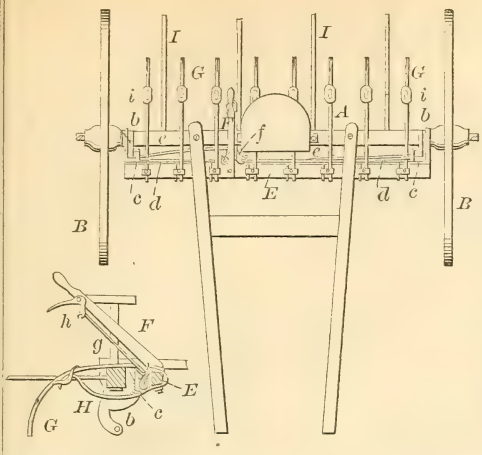

Fig. 2



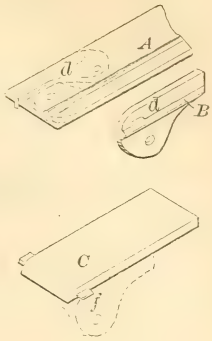

88857—C. N. Earl—*For Hanging and Fastening Doors.*



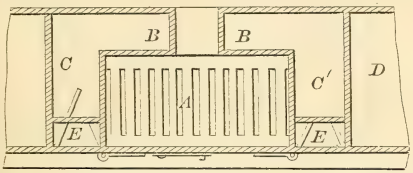
**88858**—W. Emmons—*Horse Rake.*



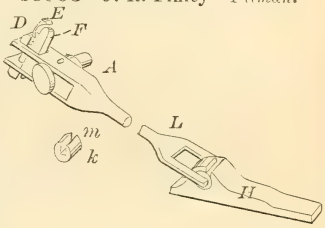

**88861**—W. Evans—*Ear Blank for Elliptic Springs.*



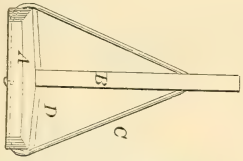

**88862**—Falls & Hayes—*Range.*



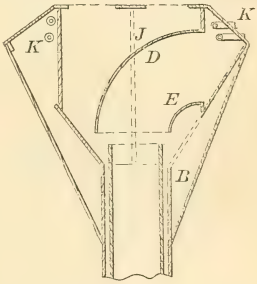

**88863**—J. R. Finley—*Pitman.*



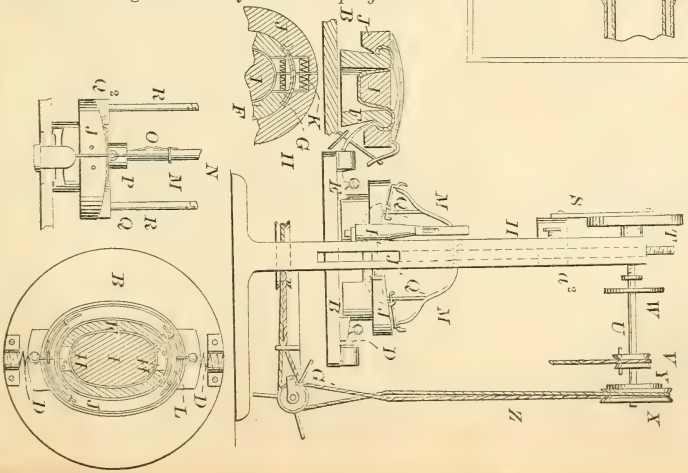

**88866**—E. S. Goodrich—*Fence Post.*



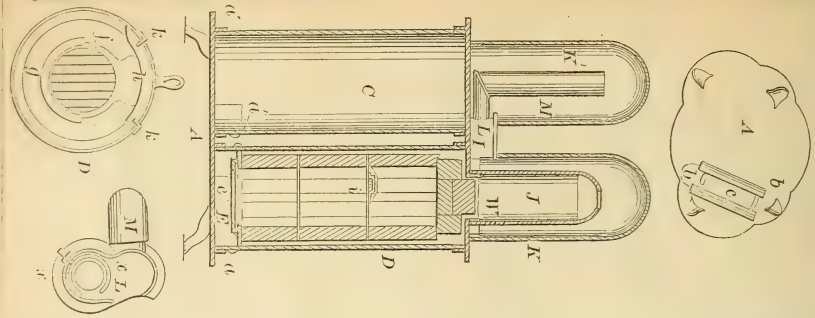

**88864**—L. Fulton—*Smoke Stack.*



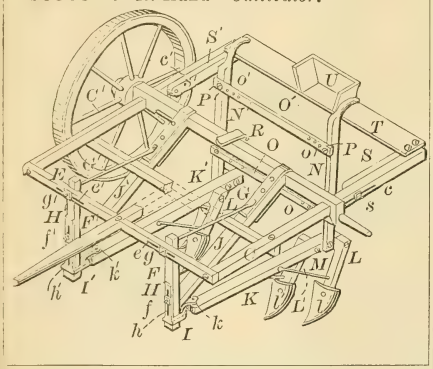

**88865**—Gallagiere & Ruby—*For Shaping Hats.*



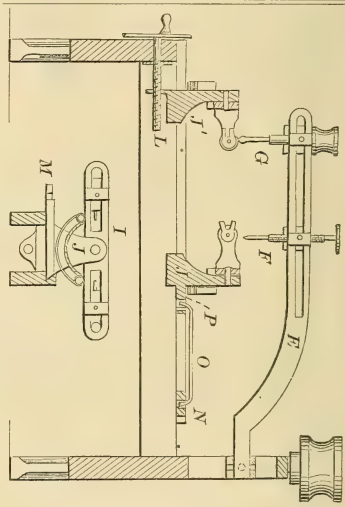
88867—W. P. Hall—*Stove and Furnace.*



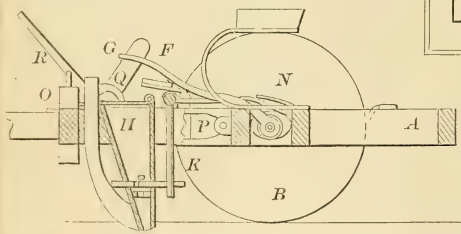
88868—J R. Hand—*Cultivator.*



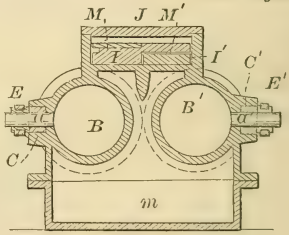
88869—A. Henkel—*Carving Machine.*



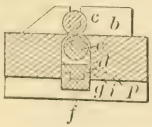
88870—I. F. Herrin—*Seed Planter.*

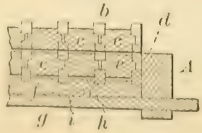


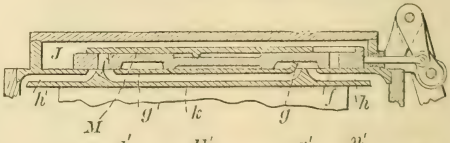
88871—W. C. Hicks—*Steam Engine.*

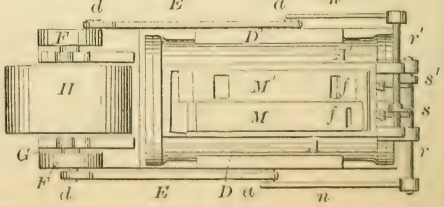


88874—L. Holmes—*Carding Engine.*

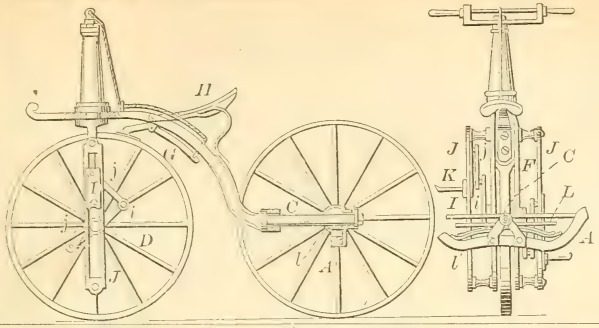




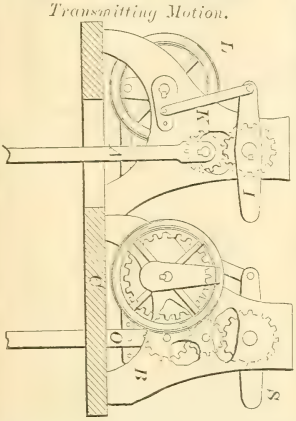




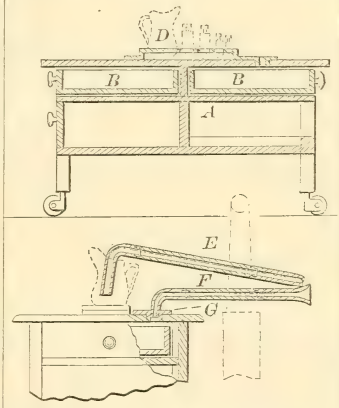
88872—W. S. Hill—*Velocipede.*



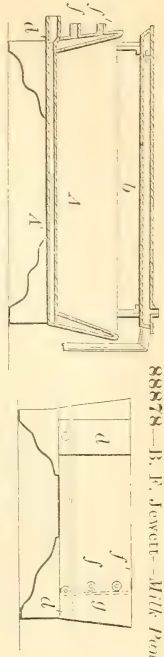
88876—C. C. Hull—*For Transmitting Motion.*



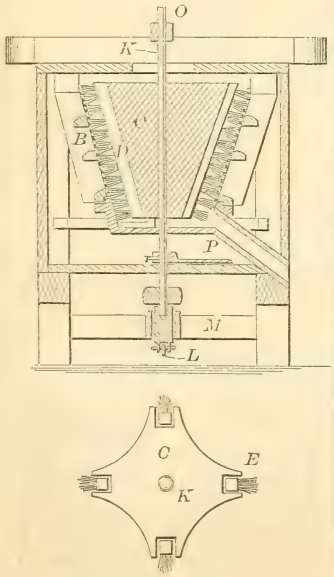
88881—J. Larkin—*Nursing Table.*



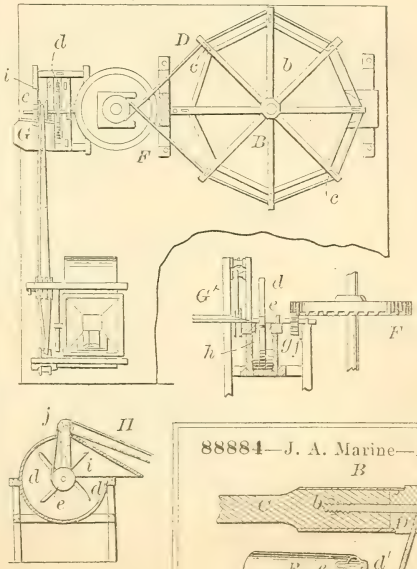
88878—B. F. Jewett—*Milk Pan.*



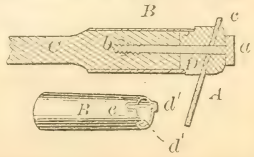
88875—S. Hughes—*Bran Duster.*



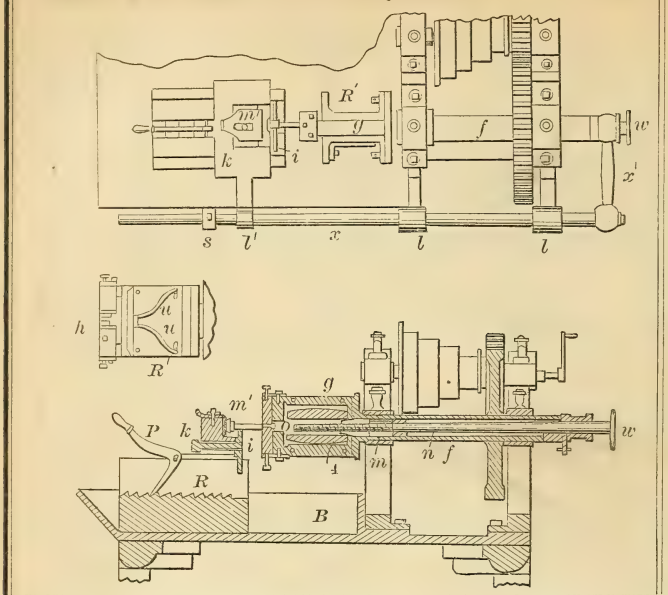
88880—J. W. M. Kirkpatrick—*Threshing and Separating Machine.*



88884—J. A. Marine—*Hoe.*

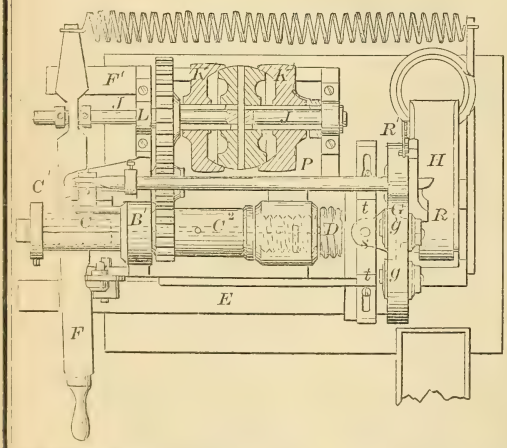


88882—W. J. Lewis—*Screw Threading Machine.*

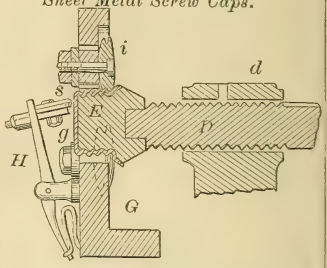



88883—W. R. Marie—*Pastry Cutter and Crimper.*

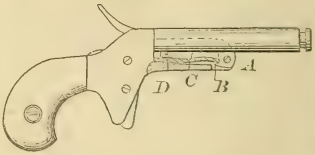
88885—J. L. Mason—*For Sheet Metal Screw Caps.*



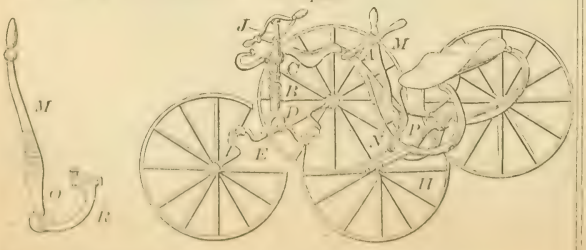

88886—J. L. Mason—*For Sheet Metal Screw Caps.*



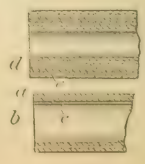

88890—J. McGoveren—*Fire Arm.*



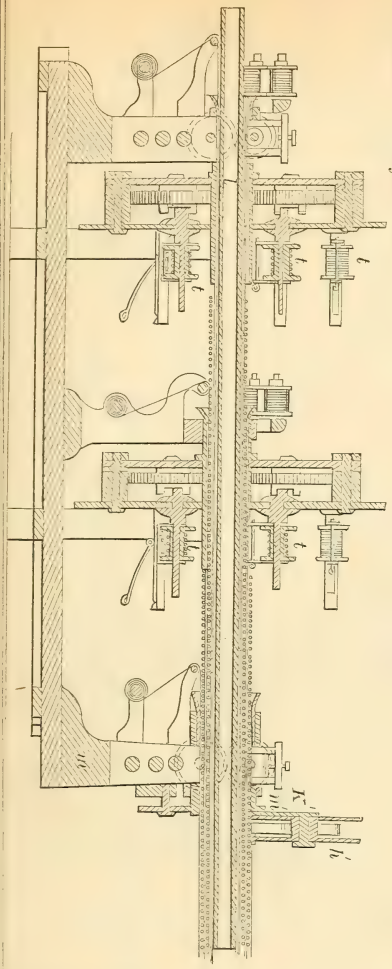

88889—F. W. McCleave—*Velocipede.*



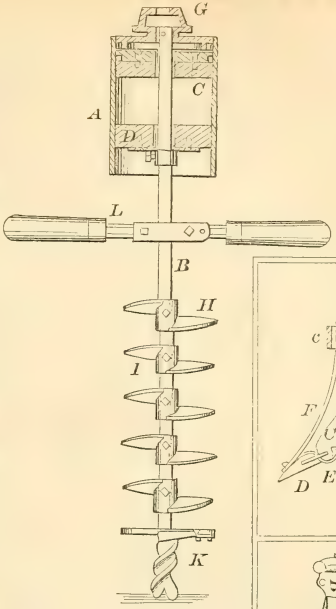

88887—T. J. Mayal—*Rubber Hose.*



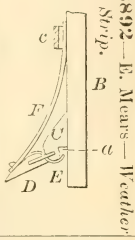
88888—T. J. Mayal—*For Rubber Hose.*



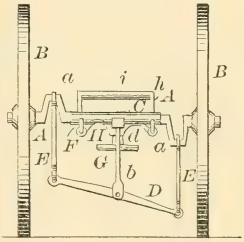
88891—A. A. McMahen—*Well Auger.*



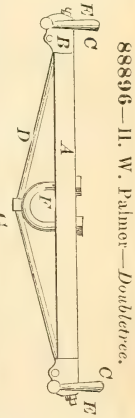
88892—E. Mears—*Weather Strip.*



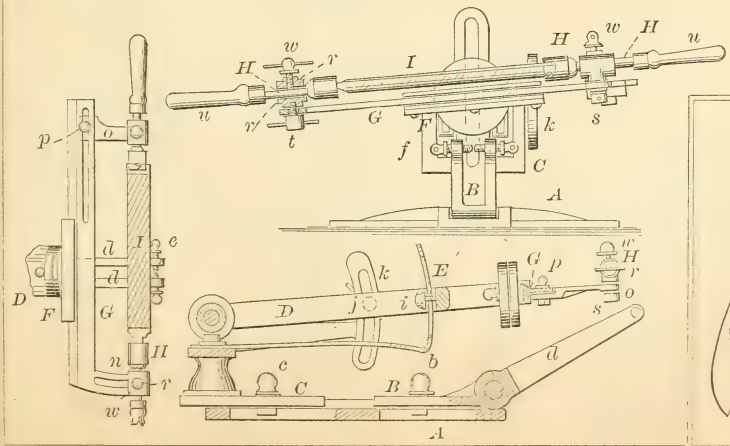
88894—T. H. Mott—*Velocipede.*



88896—H. W. Palmer—*Doubletree.*



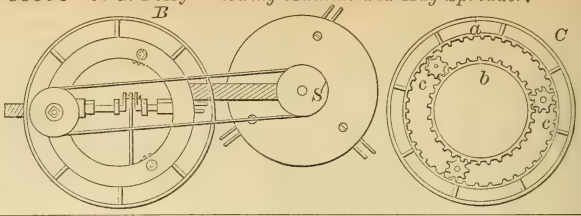
88893—C. G. Miller—*Saw Filing Machine.*



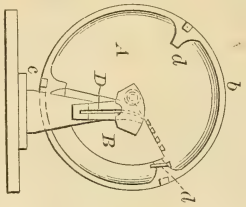
88895—A. Murdock—*Scissors.*

88897—C. H. Parmenter—*Shuttle Holder.*

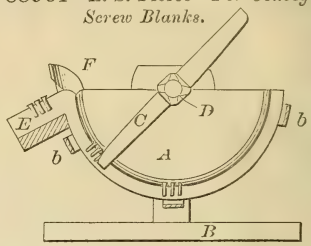
88899—J. G. Perry—*Mowing Machine and Hay Spreader.*



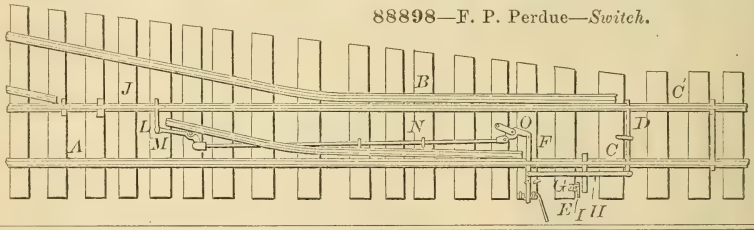
88900—E. S. Pierce—*For Conveying Screw Blanks.*



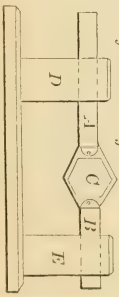
88901—E. S. Pierce—*For Conveying Screw Blanks.*



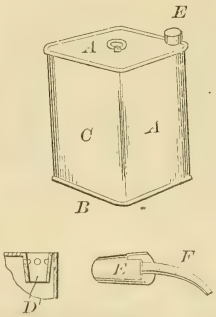
88898—F. P. Perdue—*Switch.*



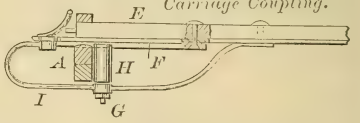
88902—E. S. Pierce—*For Connecting Parts of Machinery.*



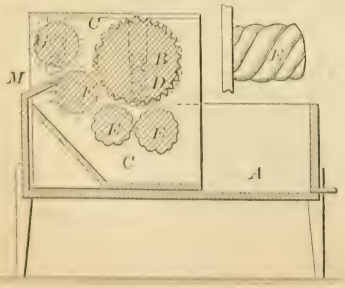
88903—W. Polyblank—*Oil Can.*



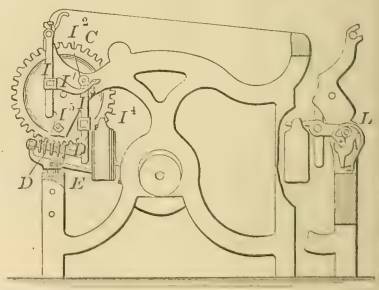
88904—H. J. & W. Pringle—*Carriage Coupling.*

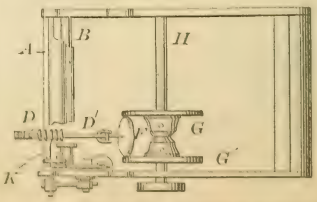


88905—H. O. Reddish—*Washing Machine.*

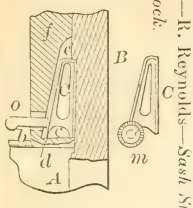


88906—R. Reynolds—*Loom.*

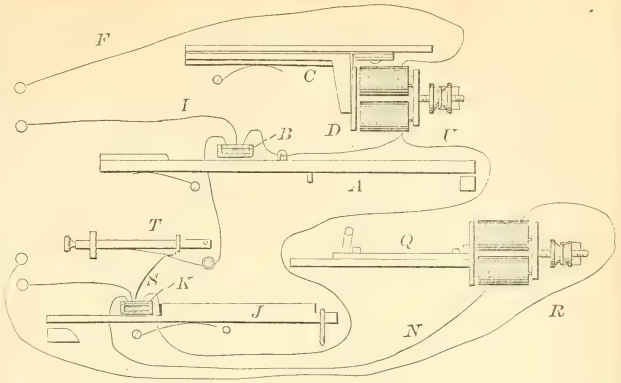




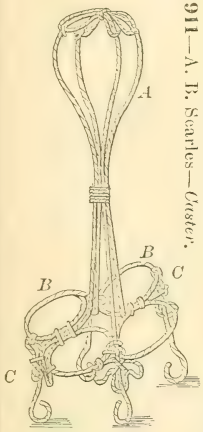
**88907**—R. Reynolds—*Sash Stop and Lock.*

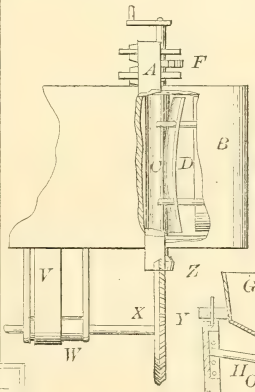



**88909**—H. L. Roosevelt—*Organ Action.*

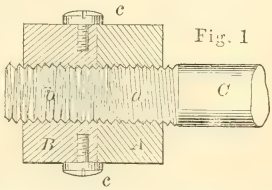



**88911**—A. B. Searles—*Caster.*

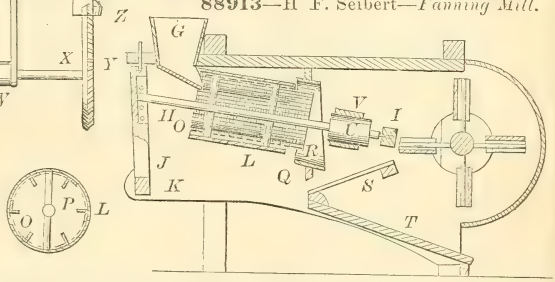


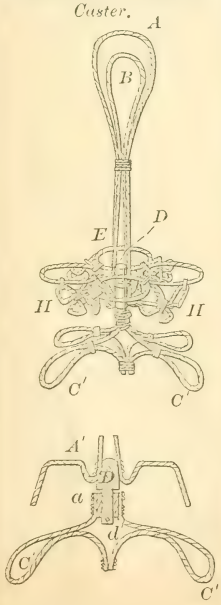

**88908**—A. Roff—*Lock Nut.*



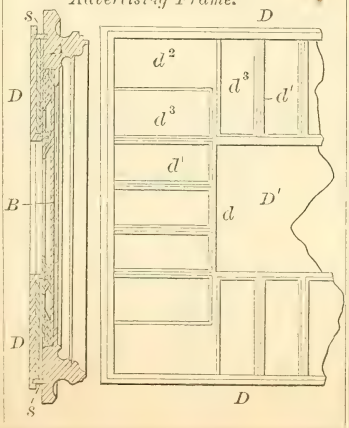

**88913**—H F. Seibert—*Fanning Mill.*



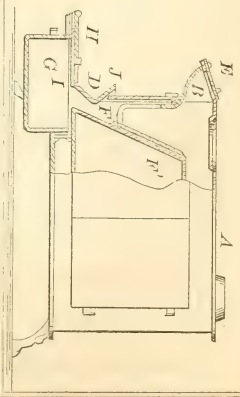

**88912**—A. B. Searles—*Caster.*



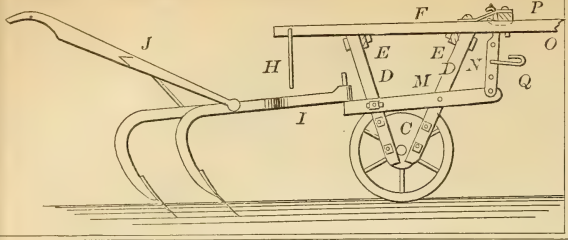

**88910**—Sadler & Drysdale—*Advertising Frame.*



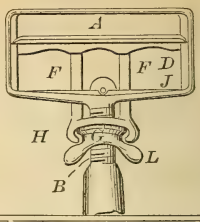

**88914**—W. G. Semple—*Stove.*



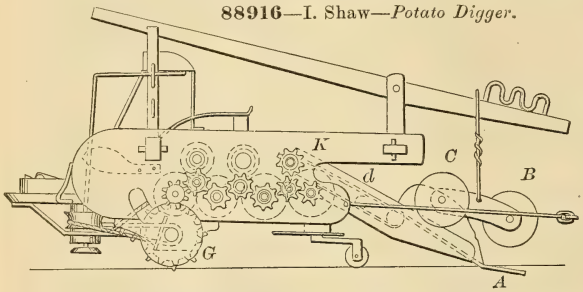
88915—J. B. Sexton—*Cultivator.*

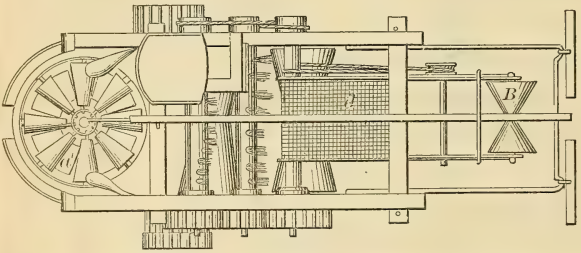



88917—E. & E. G. Sirret—*Mop Head.*

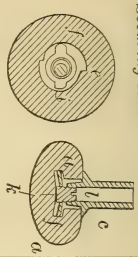



88916—I. Shaw—*Potato Digger.*

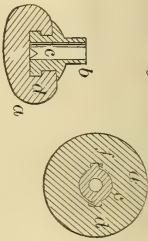


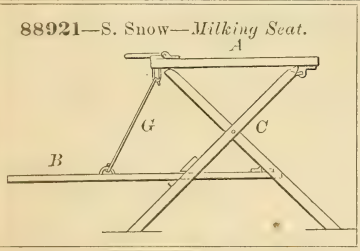

88918—T. J. Sloan—*For Securing Knobs to Shanks.*



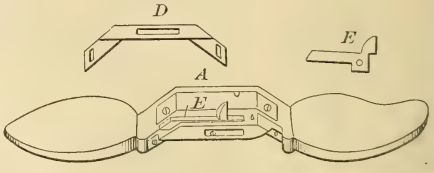

88919—T. J. Sloan—*For Securing Knobs to Shanks.*



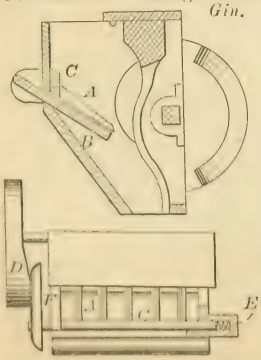

88921—S. Snow—*Milking Seat.*



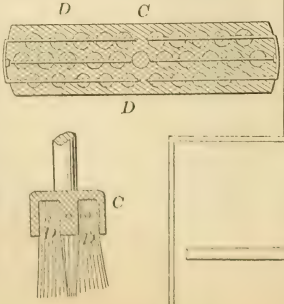

88920—T. Smiley—*For Shaving the Edges of Boot and Shoe Soles.*



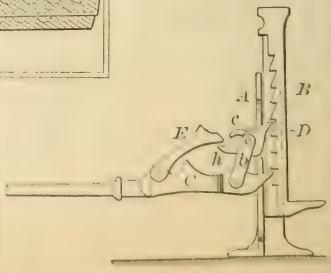

88924—R. W. Stough—*Cotton Gin.*



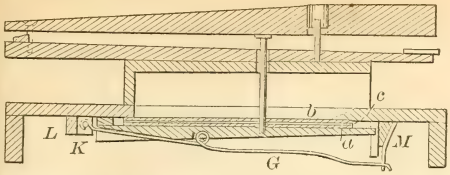

88922—W. C. Spellman—*Broom Head.*



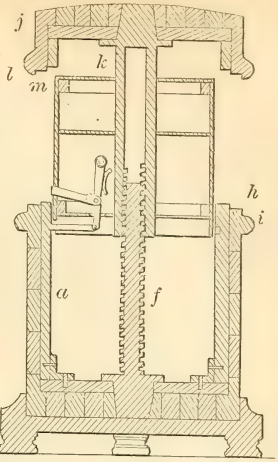

88923—T. Stebins—*Lifting Jack.*



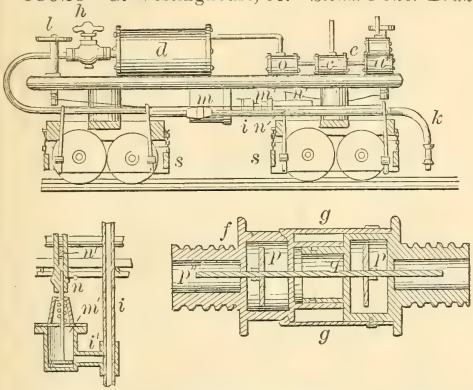
88925—A. L. Swan—*Melodeon.*



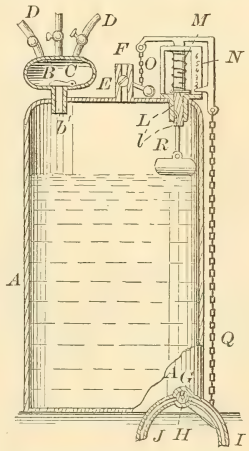

88928—J. Weimar—*Safe.*



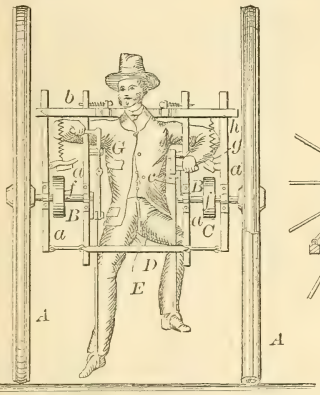

88929—G. Westinghouse, Jr.—*Steam Power Brake.*

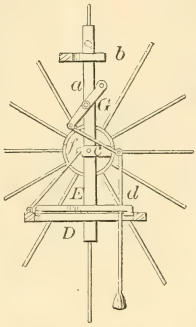



88927—J. L. Treat—*For Raising Beer.*

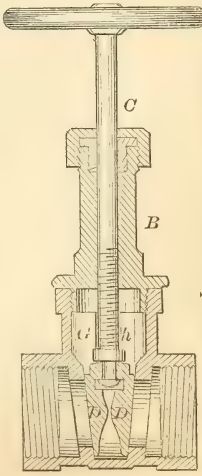



88930—J. J. White—*Velocipede.*

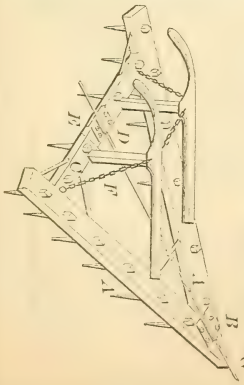


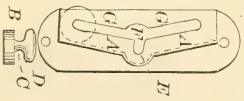

88934—B. F. Wilson—*Stop Valve.*



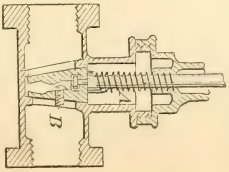

88931—B. B. Williams—*Harrow.*



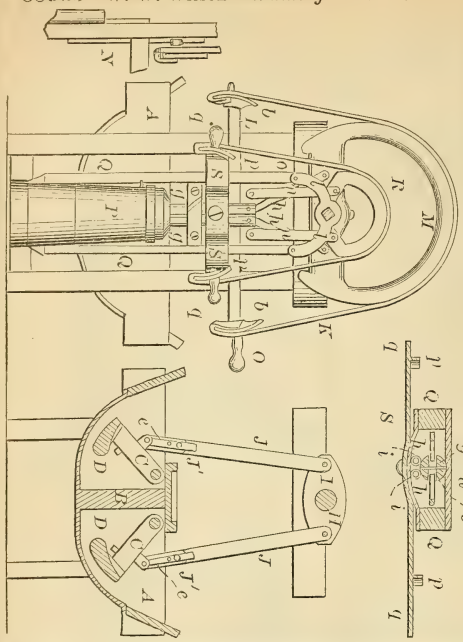
88932—B. F. Wilson—*Sash Holder.*



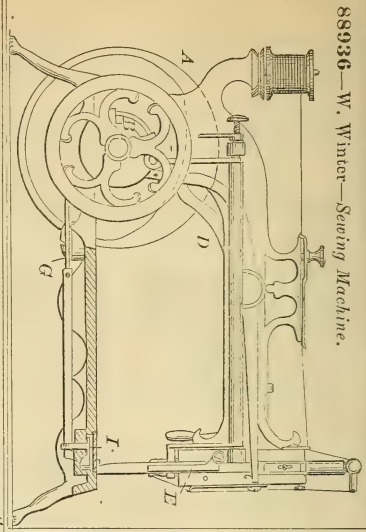

88933—B. F. Wilson—*Stop Valve.*



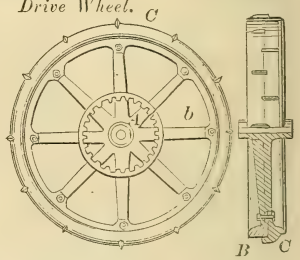
88935—W. W. Wilson—*Washing Machine.*



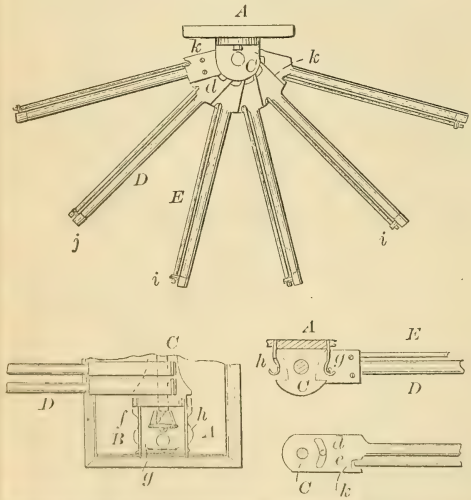
88936—W. Winter—*Sewing Machine.*



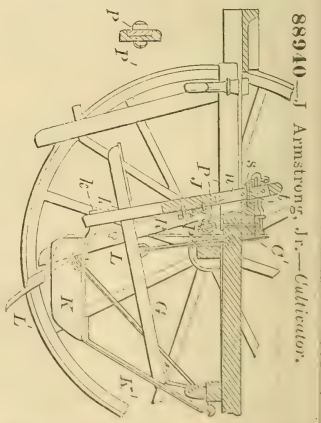
88938—W. A. Wood—*Harvester Drive Wheel.*



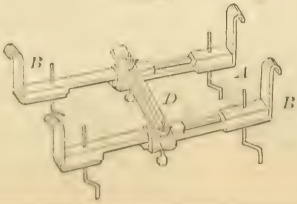
88937—Winterhalder & Wilson—*Clothes Dryer.*



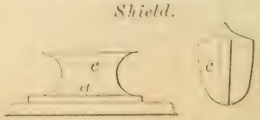
88940—J. Armstrong, Jr.—*Cultivator.*



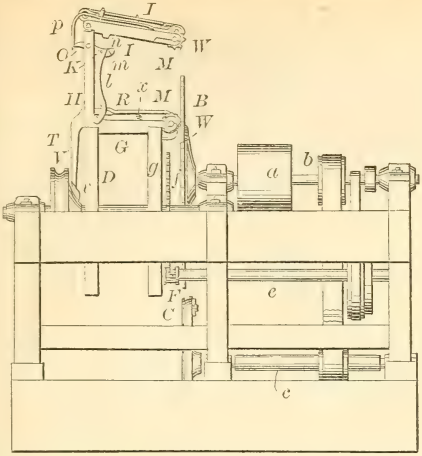
88944—J. D. Cole—*For Adjusting Carriage Bodies.*



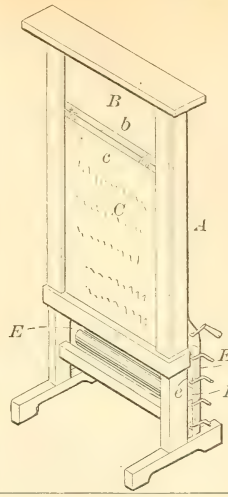
88942—C. N. Brainerd—*Finger Shield.*



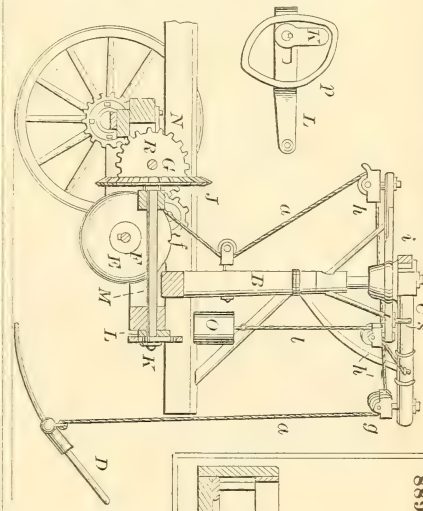
**88943**—Chase & Morton—*Shingle Machine.*



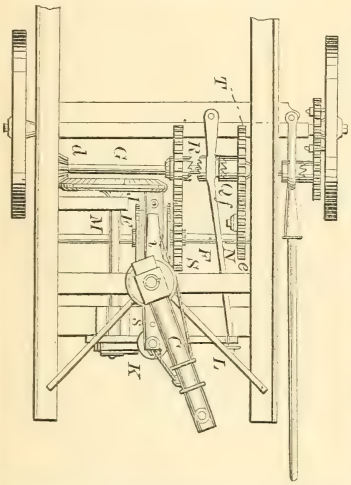
**88947**—H. V. Edmond—*For Exhibiting Hymns.*



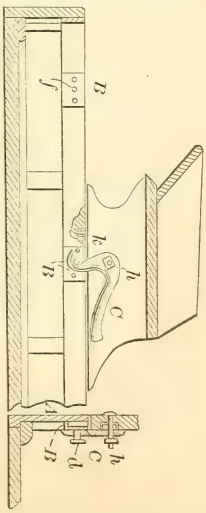
**88945**—E. Cooper—*Hay Loader.*



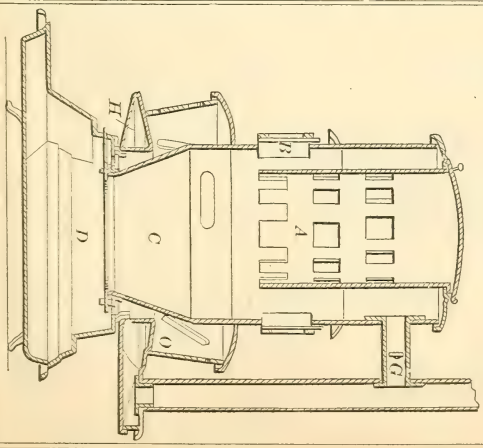
**88945**—E. Cooper—*Hay Loader.*



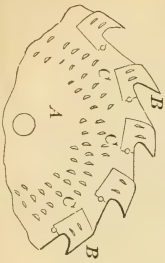
**88950**—Taber & Martin—*Wagon Seat Fastening.*



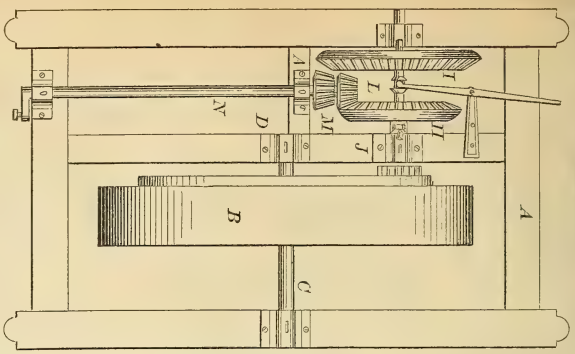
**88946**—D. B. Cox—*Stove.*



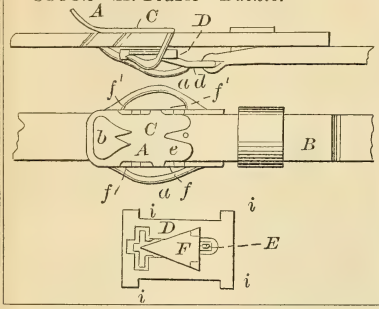
88949—J. E. Emerson—*Saw.*



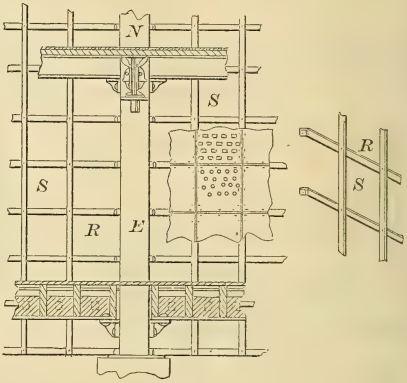

88951—A. Foot—*Harvester.*



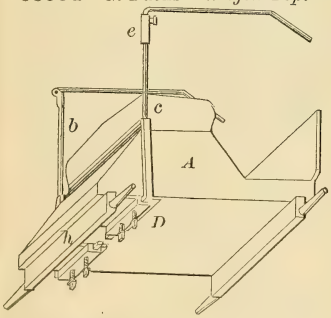

88952—K. Frazer—*Buckle.*



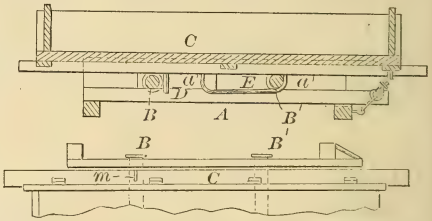

88953—W. J. Fryer—*Building.*




88954—G. Fuchs—*Wagon Top.*

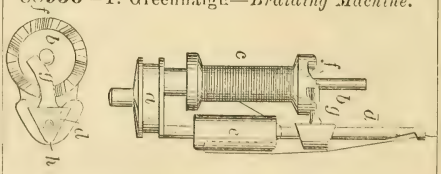



88955—T. H. Gary—*Dumping Wagon.*

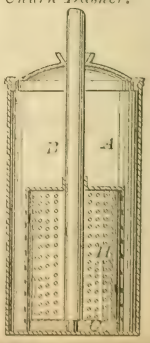



88958—F. Henderson—*Locking Tool.*

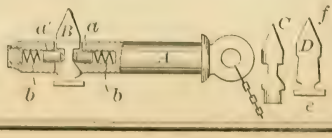
88956—T. Greenhalgh—*Braiding Machine.*



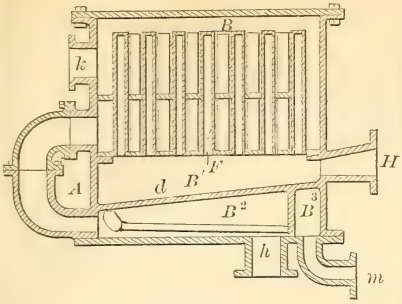

88957—W. J. Hale—*Churn Dasher.*



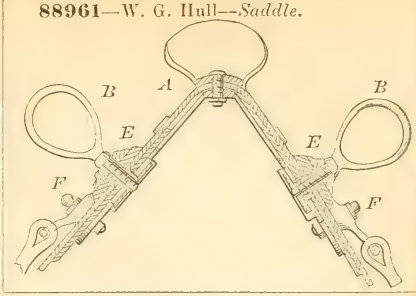

88959—C. H. Hopkins—*Bolt.*



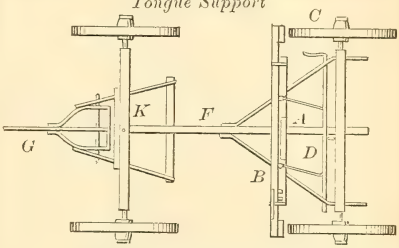
**88960**—J. Houpt—*Surface Condenser.*



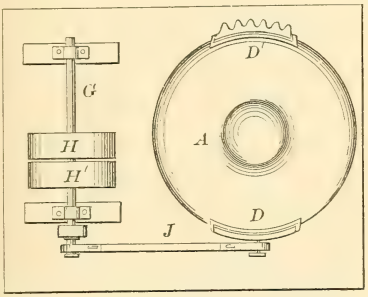

**88961**—W. G. Hull—*Saddle.*



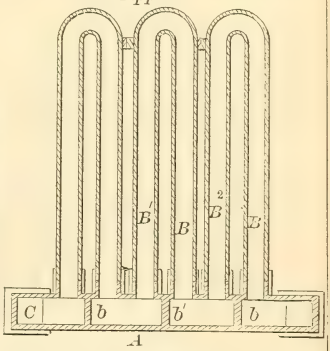

**88962**—A. C. Jaques—*Wagon Brake and Tongue Support*



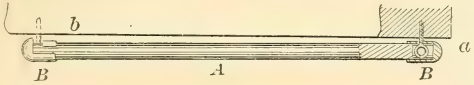

**88963**—S. Johnson—*Amalgamator.*



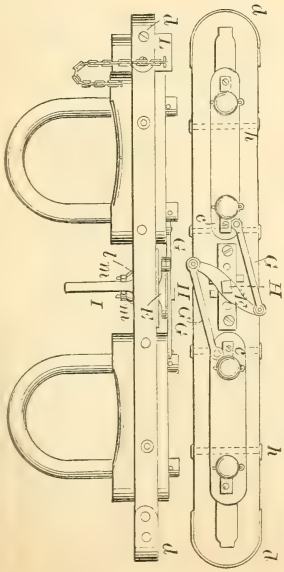

**88964**—J. C. Kent—*Blast Heating Apparatus.*



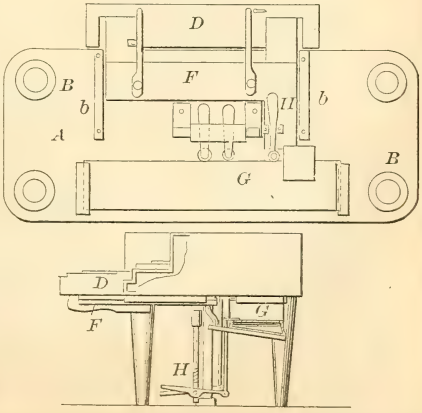

**88966**—M. Krickl—*Stair Rod.*



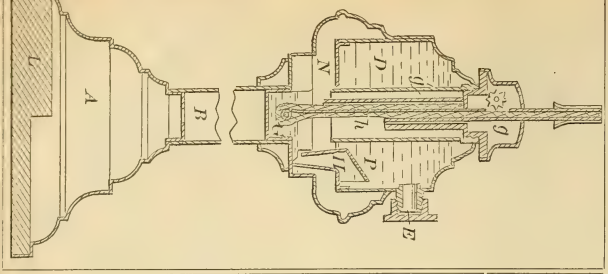

**88965**—Knowlton & Smith—*Ox Yoke.*



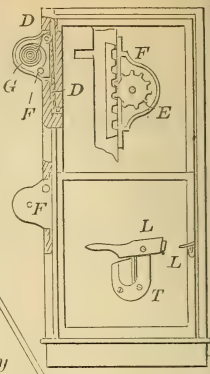

**88967**—L. Louis—*Melodeon Attachment to Piano Fortes.*



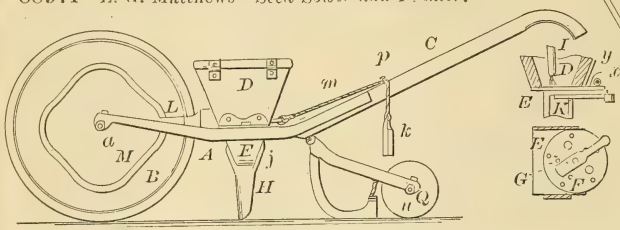
88968—L Mangeon—*Lamp.*



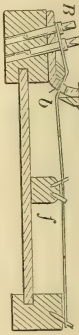
88969—W. J. & A. T. Manker—*Sash Stop.*



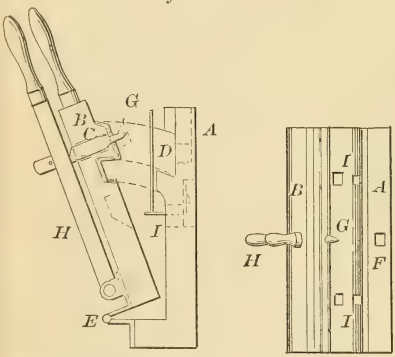
88971—E. G. Matthews—*Seed Sower and Planter.*



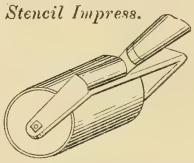
88970—T. Marschall—*Piano Forte.*



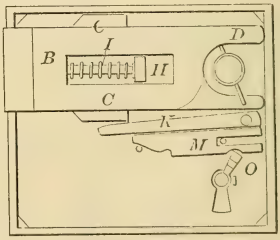
88972—E. May—*Lath Machine.*



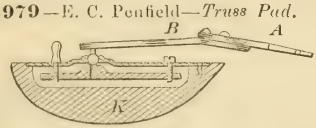
88975—G. V. Metzel—*Stencil Impress.*



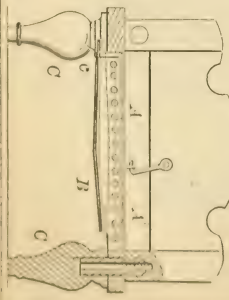
88974—J. McLeod—*Latch and Lock.*



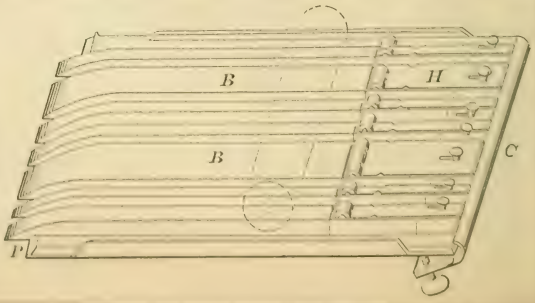
88979—E. C. Penfield—*Truss Pad.*



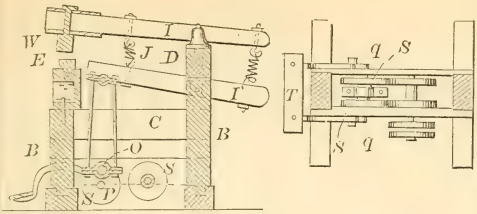
88977—J. Müller—*Bedstead.*



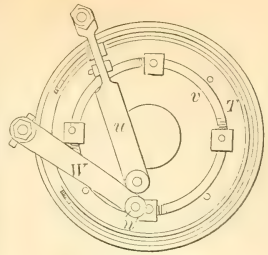
88976—Moore & Day—*Inking Apparatus for Color Printing.*

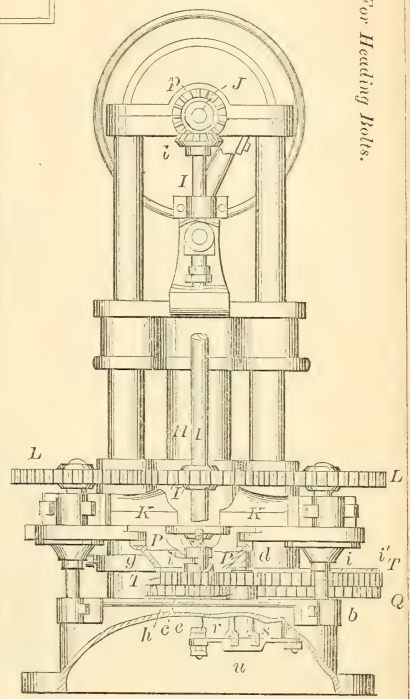


**88980**—T. T. Prosser—*Power Hammer.*

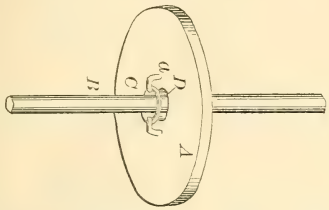


**88981**—T. T. Prosser—*For Heading Bolts.*

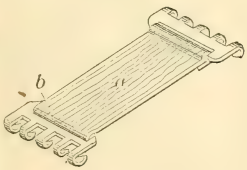




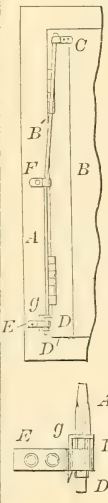
**88983**—E. Reynolds—*Churn Lid Screen.*



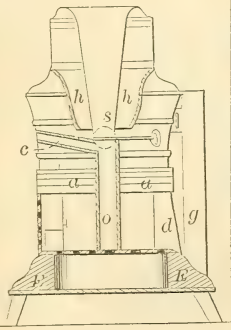
**88984**—J. A. Robbins—*Supporter.*

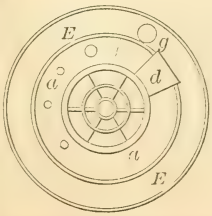


**88985**—W. Ross—*Door Spring.*

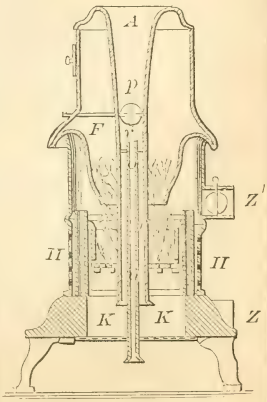


**88986**—E. Smith—*Stove.*

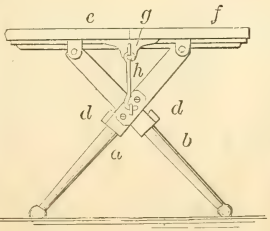




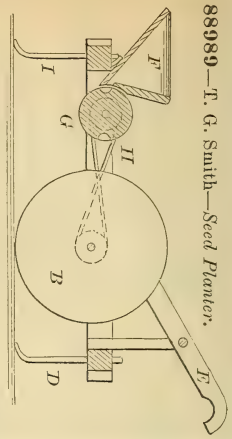
**88987**—E. Smith—*Stove.*



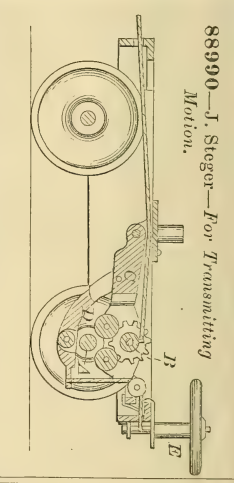
**88988**—J. W. Smith—*Table.*



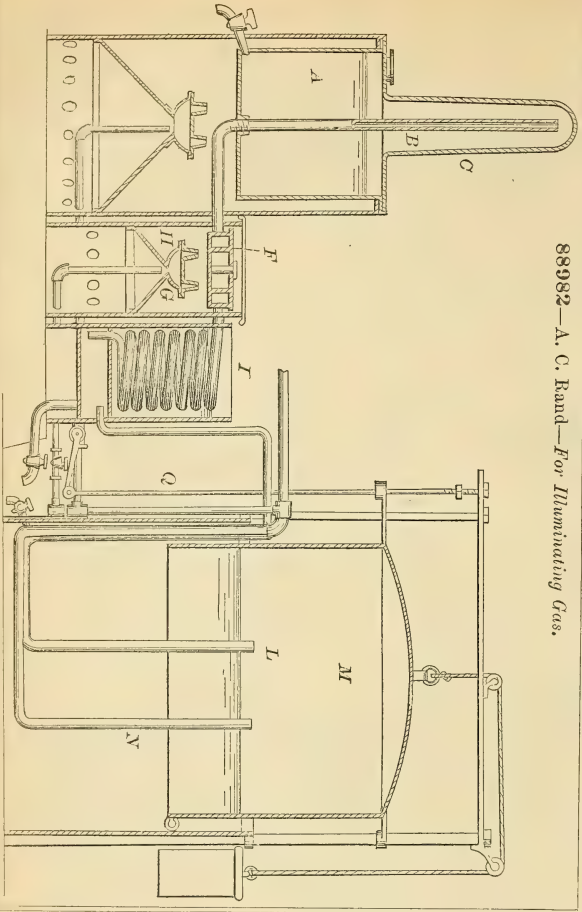
88989—T. G. Smith—*Seed Planter.*



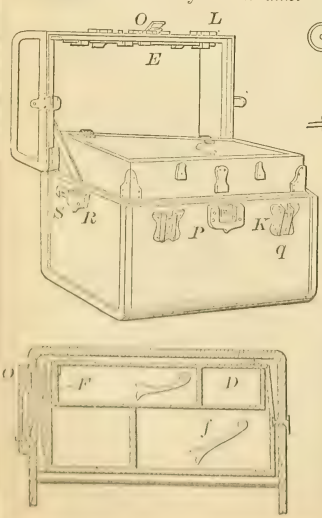

88990—J. Steger—*For Transmitting Motion.*



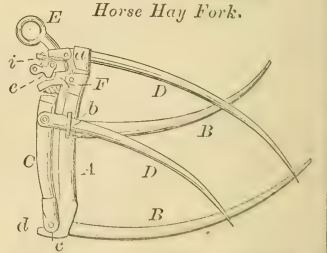

88982—A. C. Band—*For Illuminating Gas.*



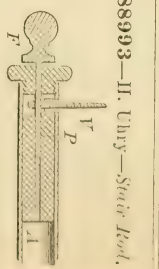

88992—C. A. Taylor—*Trunk.*



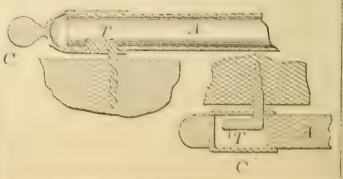

88991—J. B. Sweetland—*Horse Hay Fork.*



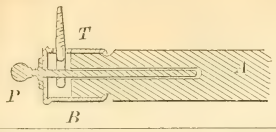

88993—H. Uhry—*Stair Rod.*



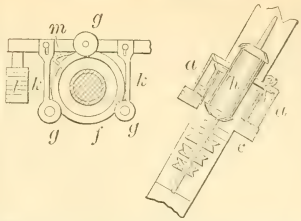

88994—H. Uhry—*Stair Rod.*



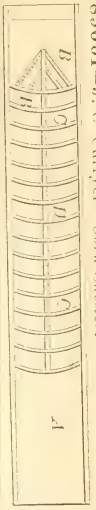
**88995**—H. Uhry—*Stair Rod.*



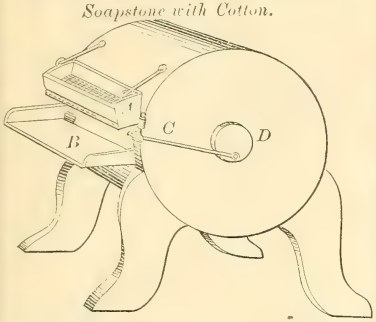

**88996**—T Welham—*Ring and Traveler for Spinning.*



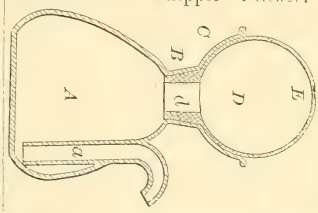

**89001**—J. C. Curryer—*Corn Sheller.*



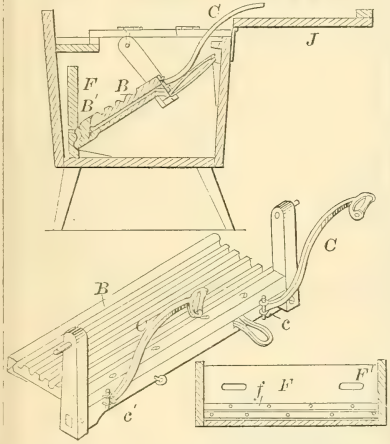

**88997**—T. Welham—*For Mixing Soapstone with Cotton.*



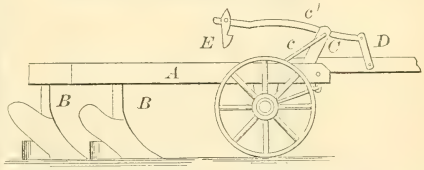

**88999**—J. P. Whipple—*Pitcher.*



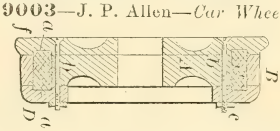

**89000**—J. Young—*Washing Machine*



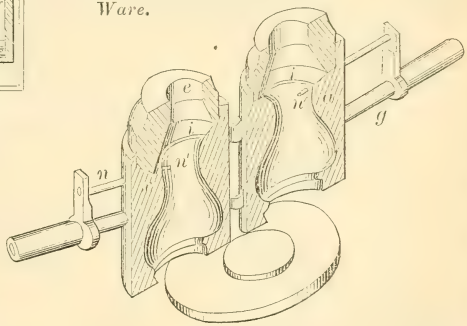

**88998**—G. Wharton—*Plow.*



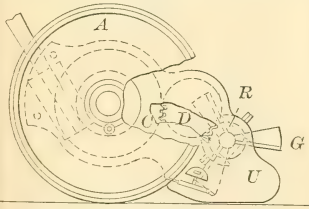

**89003**—J. P. Allen—*Car Wheel.*

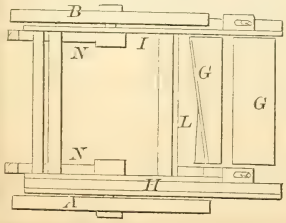



**89005**—J. S. & T. B. Atterbury—*For Glass Ware.*

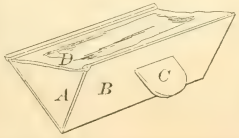



**89004**—J. Arbeiter—*Mower.*

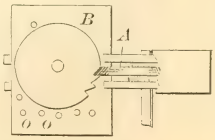


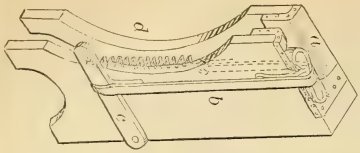

**89002**—J. F. Adams—*Gold Leaf Condenser.*



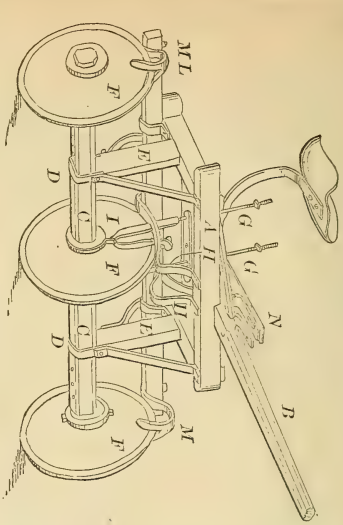

**89006**—A. Bartlett—*Saw Sharpener.*



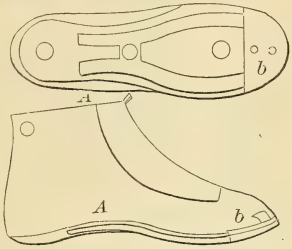
**89007**—I. N. Beals—*For Lasting Boots and Shoes.*



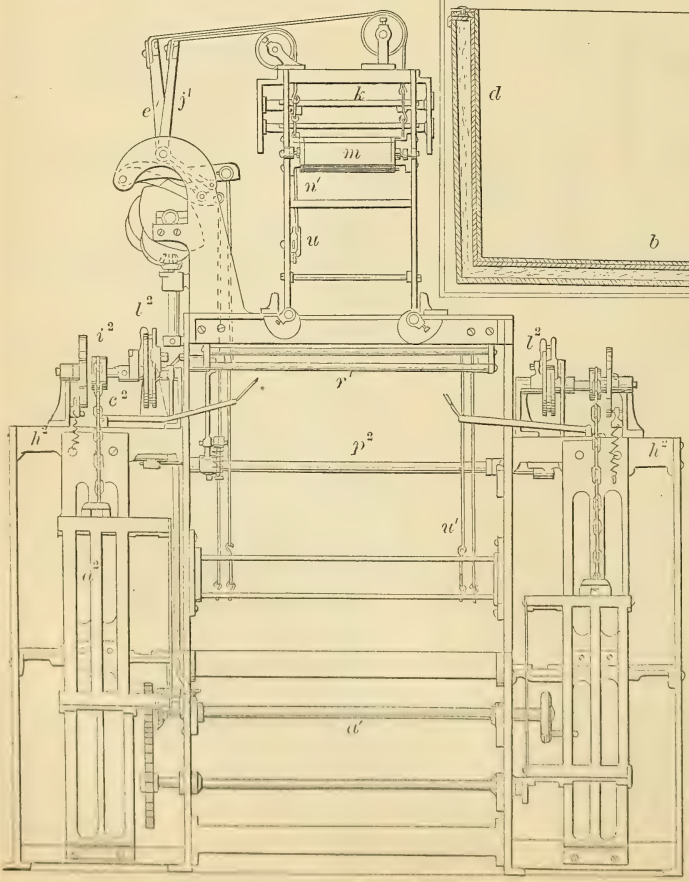

**89008**—J. H. Bean—*Corn Marker.*



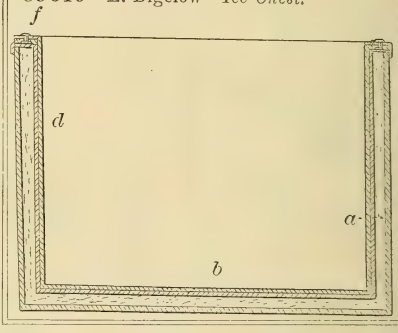

**89009**—H. R. Bean—*Last.*



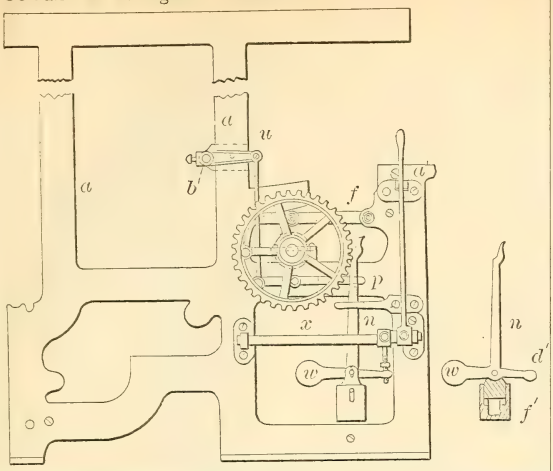

**89011**—E. B. Bigelow—*Loom.*



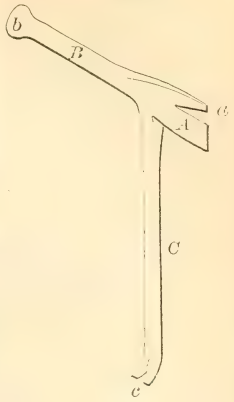

**89010**—E. Bigelow—*Ice Chest.*



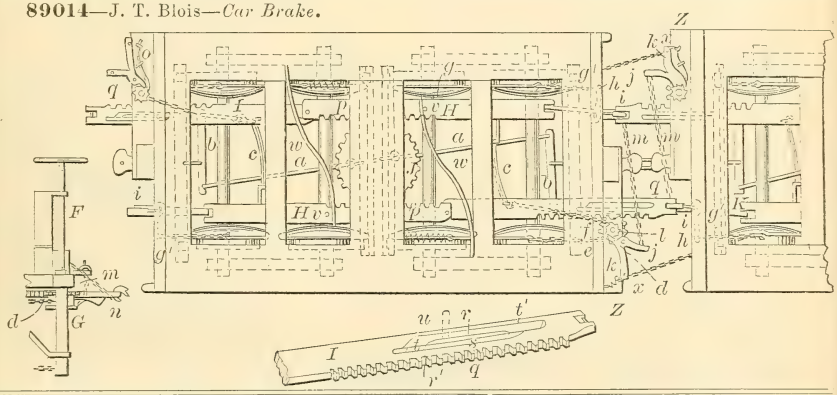
**89012**—E. B. Bigelow—*Loom.*



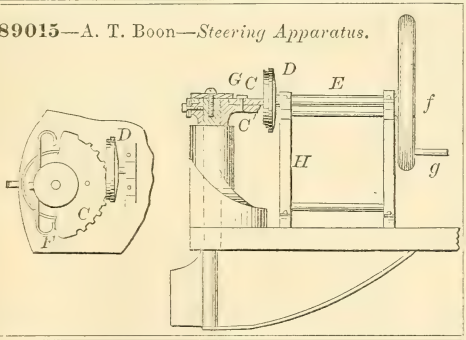
**89013**—R. Blake—*Box Opener.*



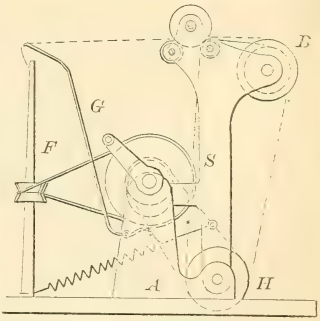
**89014**—J. T. Blois—*Car Brake.*



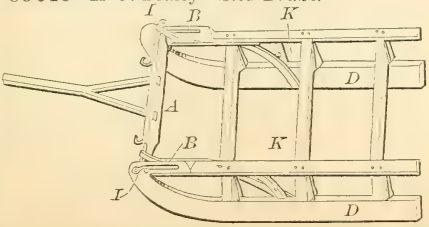
**89015**—A. T. Boon—*Steering Apparatus.*



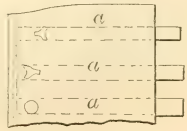
**89017**—H. B. Briggs—*Spinning Frame.*



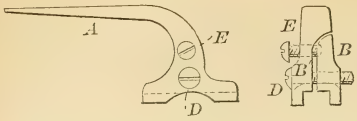
**89016**—A. J. Braley—*Sled Brake.*



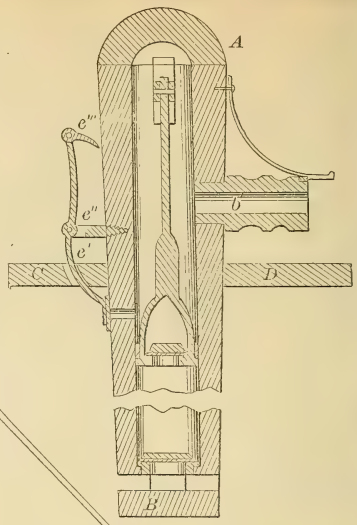
**89018**—J. W. Brooks—*Corset Fastening.*



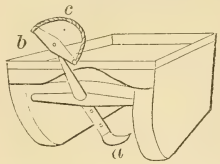
**89019**—A. P. Brown—*File Holder.*



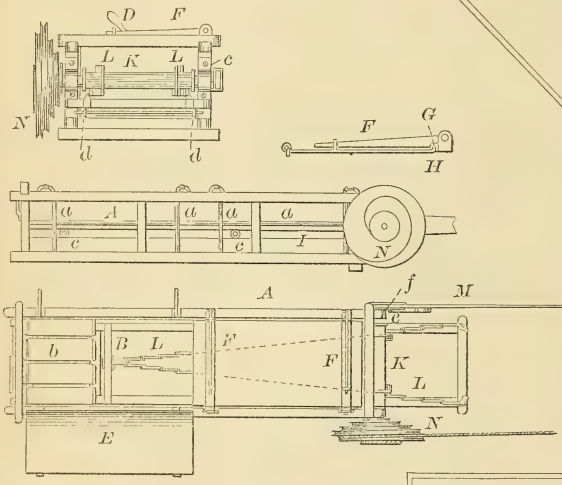

**89020**—J. H. Brown—*Pump Valve.*



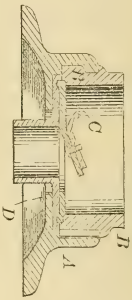

**89021**—G. Buchanan—*For Steering Sleds.*



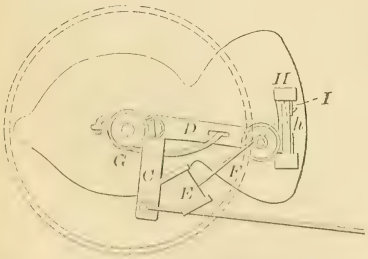

**89022**—E. Buel—*Baling Press.*



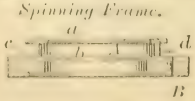

**89023**—Bulkley & Shepard—*Pump Valve.*



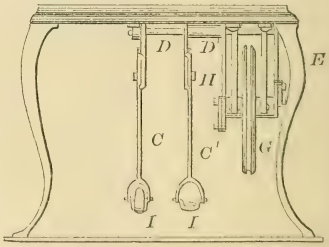

**89024**—L. S. Carpenter—*Gong Bell.*



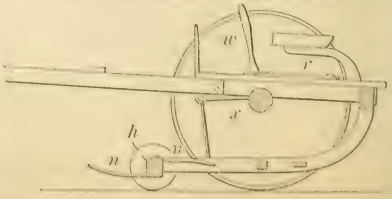

**89025** W. T. Carroll—*Ring for Spinning Frame.*



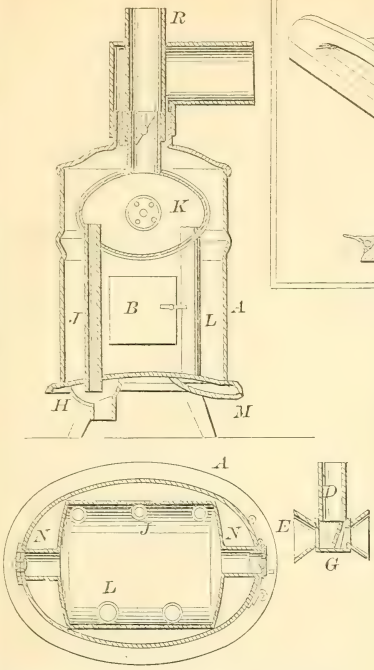

**89026**—H. J. Case—*Mechanical Movement.*



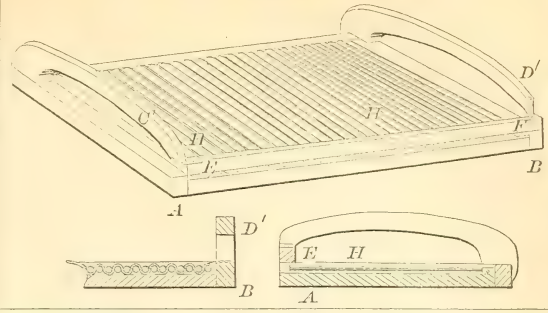

**89029**—E. Crandal—*Horse Rake.*



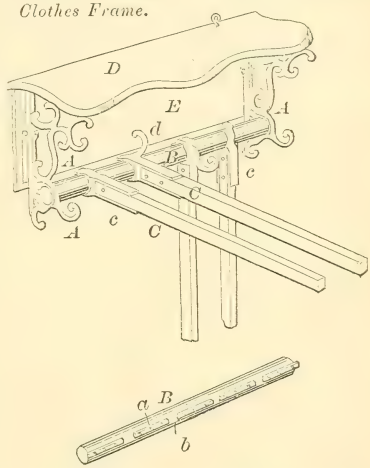
**89027**—L. R. Comstock—*Car Stove.*



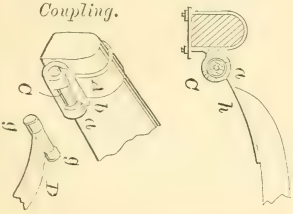

**89028**—C. F. Corbett—*Fluting Machine.*



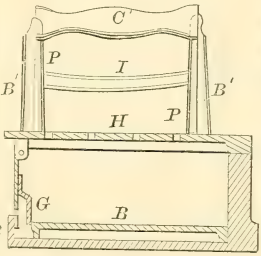

**89031**—J. Danner—*Shelf, Coat Rack and Clothes Frame.*




**89032**—J. Dempsey—*Thill Coupling.*

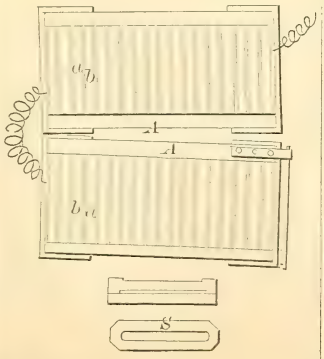



**89033**—A. Doll—*Sad Iron Heater.*

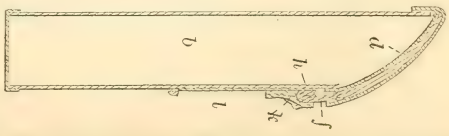



**89030**—J. W. Culbertson—*Syringe.*

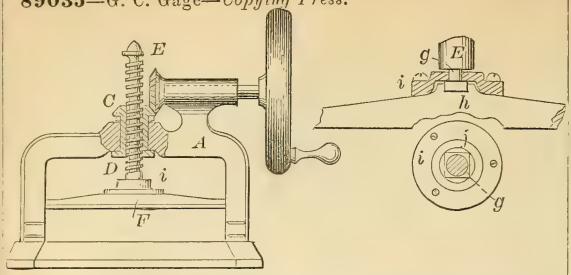
**89036**—A. C. Garratt—*Voltaic Battery.*



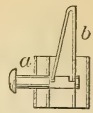

**89034**—J. Foster—*Safety Pocket.*



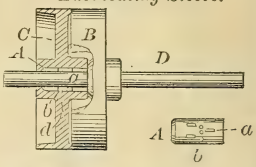
**89035**—G. C. Gage—*Copying Press.*



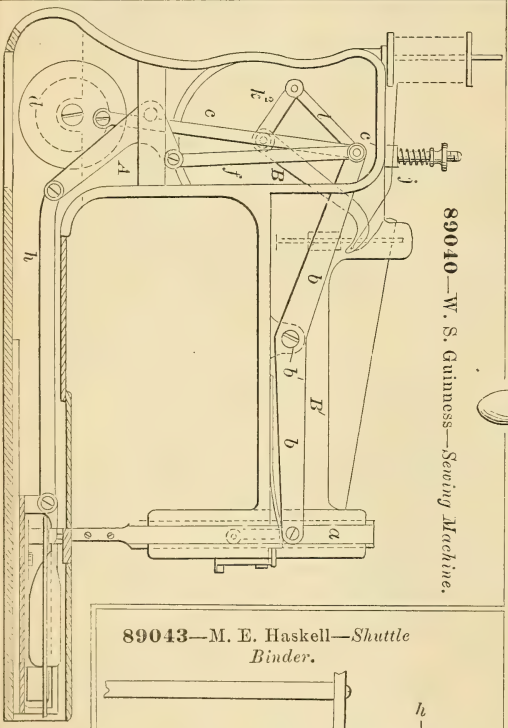

**89037**—G. S. Grant—*Bracelet Snap.*



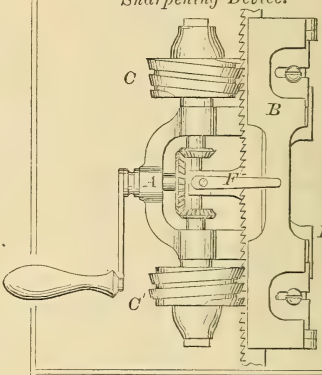

**89038**—O. E. Greene—*Lubricating Sleeve.*



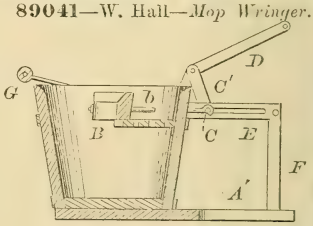

**89040**—W. S. Guinness—*Sewing Machine.*



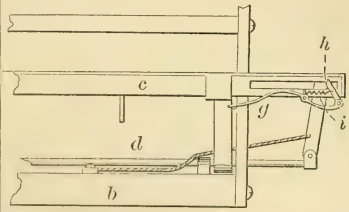

**89042**—J. H. Harrison—*Saw Sharpening Device.*



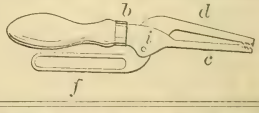

**89041**—W. Hall—*Mop Wringer.*



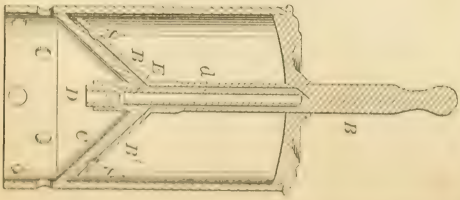

**89043**—M. E. Haskell—*Shuttle Binder.*



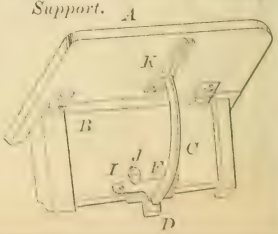

**89044**—N. L. Hatch—*Tongs.*



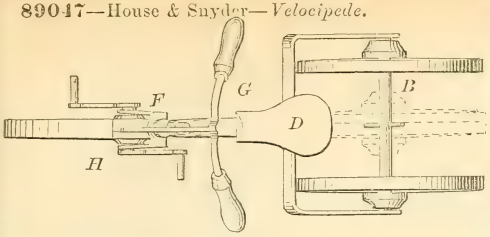

**89046**—S. B. Holden—*Churn.*



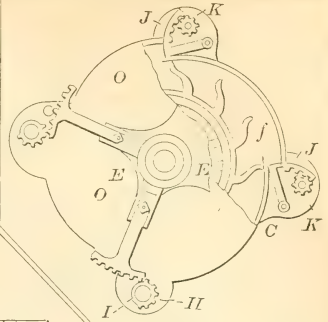

**89045**—J. Hilts—*Table Leaf Support.*



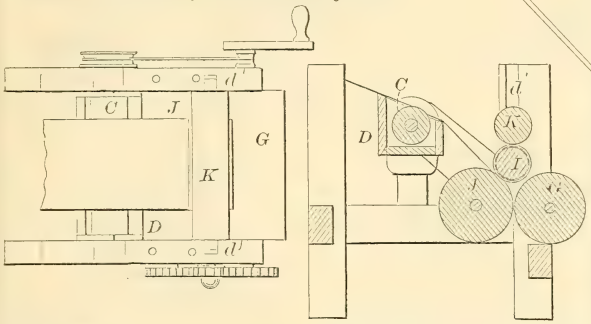
**89047**—House & Snyder—*Velocipede.*



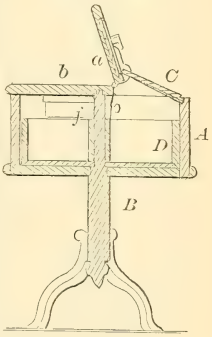

**89050**—J. Jordan—*Water Wheel.*



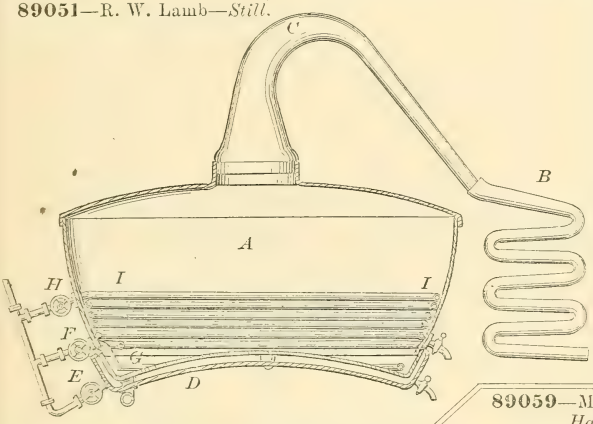

**89048**—D. Hussey—*For Finishing Cloth.*



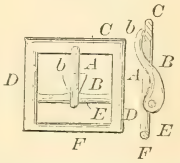

**89052**—W. S. Little—*Work Table.*



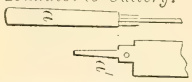

**89051**—R. W. Lamb—*Still.*



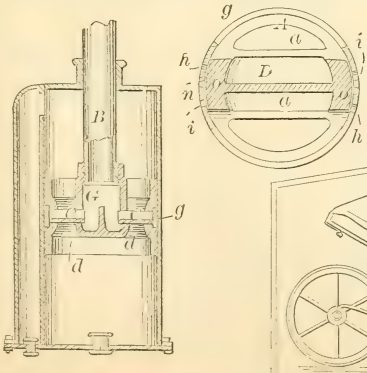

**89057**—A. C. Luther—*Buckle.*



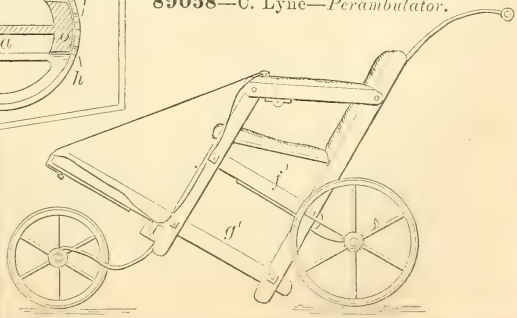

**89059**—Mason & Binns—*Attaching Handles to Cutlery.*



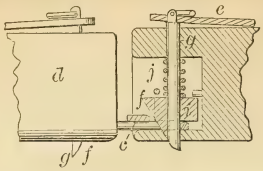
**89060**—S. G. Mason—*Pump Piston.*



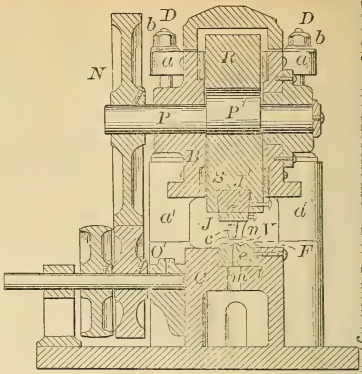

**89058**—C. Lyne—*Perambulator.*

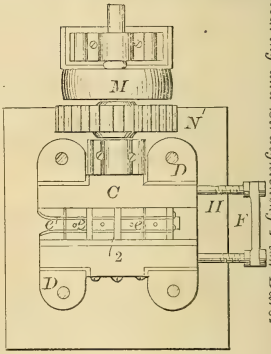


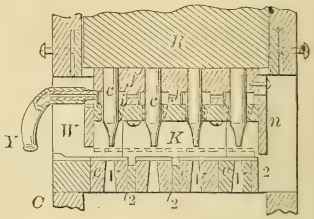
**89061**—A. McLean—*Car Coupling.*



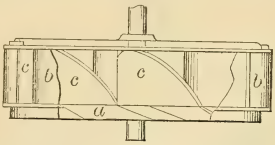
**89062**—W. Morehouse—*For Punching, Shearing and Straightening Fish Bars.*



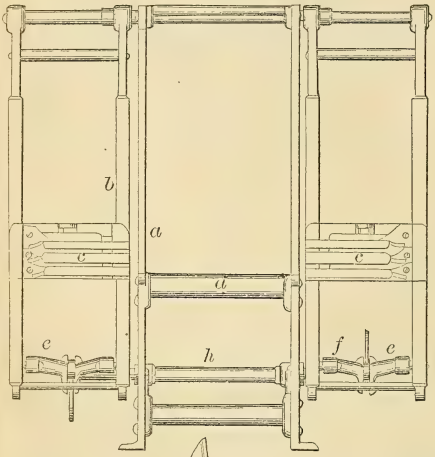


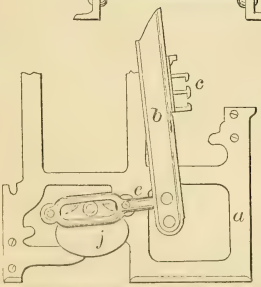


**89063**—I. Morse—*Water Wheel.*

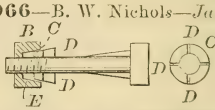


**89065**—A. Murray—*Power Loom.*

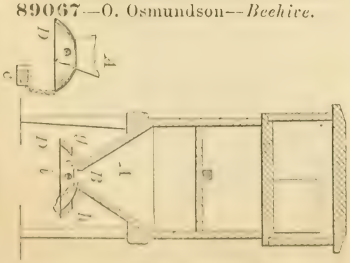




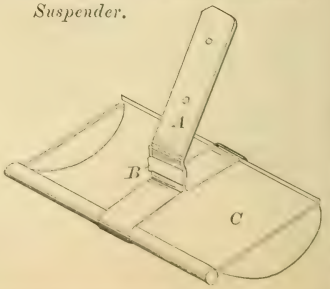
**89066**—B. W. Nichols—*Jam Nut.*



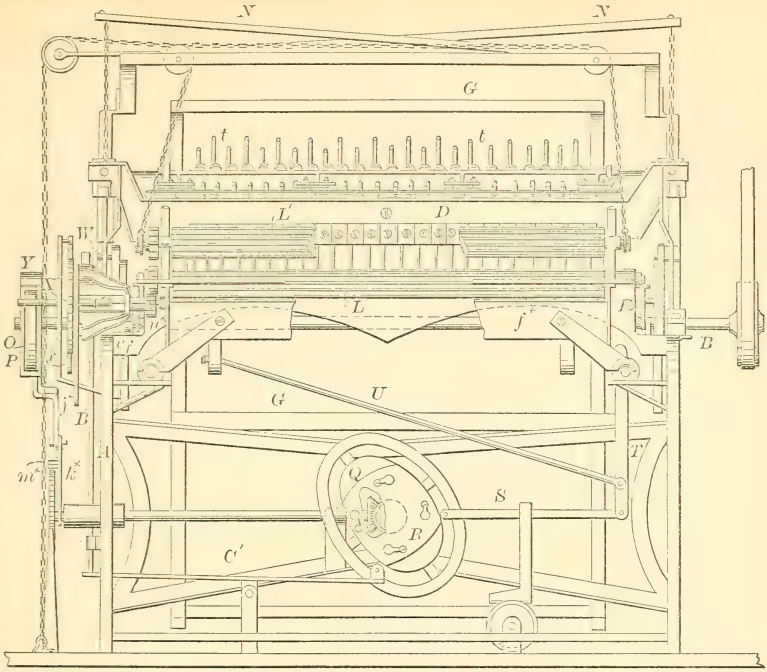
**89067**—O. Osmundson—*Beehive.*

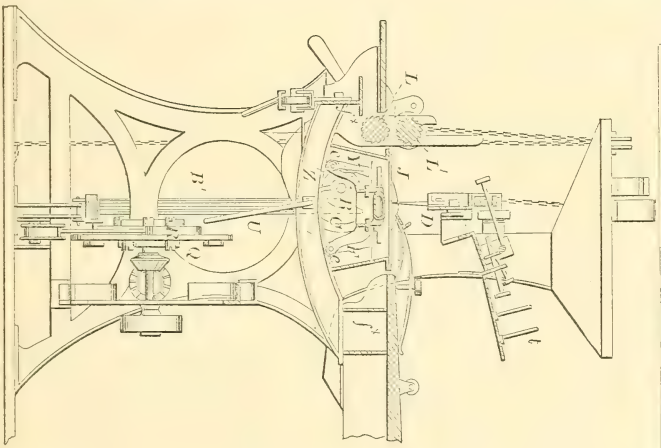


**89068**—T. F. Palm—*Eavestrough Suspender.*

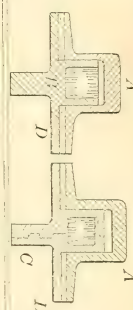


**89064**—W. Muir—*Sewing Machine.*

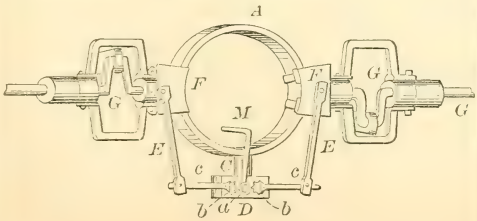


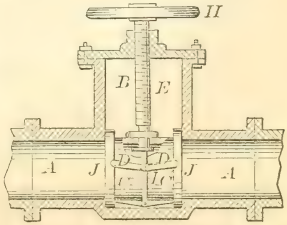

**89070**—D. C. Pierce—*Railway Rail.*



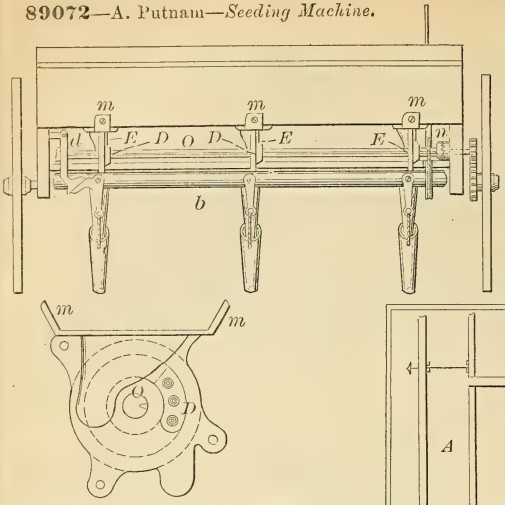

**89069**—G. T. Parry—*Velocipede.*



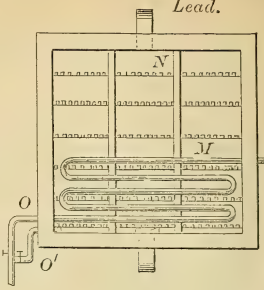

**89071**—R. Pilling—*Stop Valve*

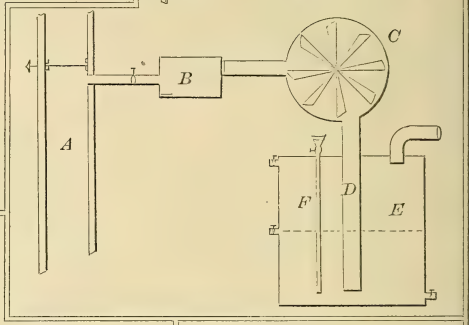


**89072**—A. Putnam—*Seeding Machine.*

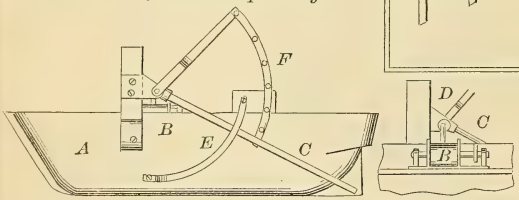



**89074**—T. Reakirt—*For White Lead.*

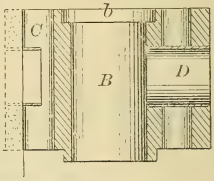


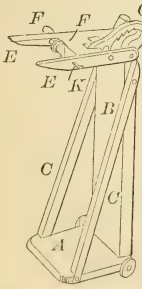

**89073**—D. Quinn—*Pump Dredge.*



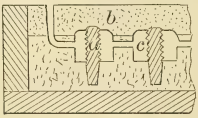

**89075**—W. G. Reed—*Chimney.*



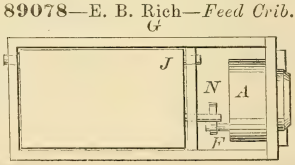

**89077**—H. A. Reid—*Bag Holder and Truck.*



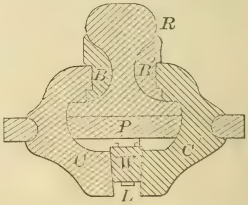

**89076**—J. Reichenbach—*For Chilled Castings.*



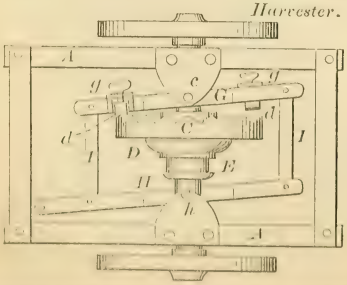

**89078**—E. B. Rich—*Feed Crib.*



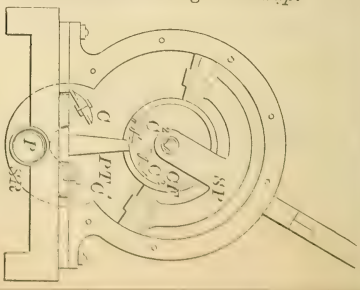

**89079**—T. C. Robinson—*Railroad Chair.*



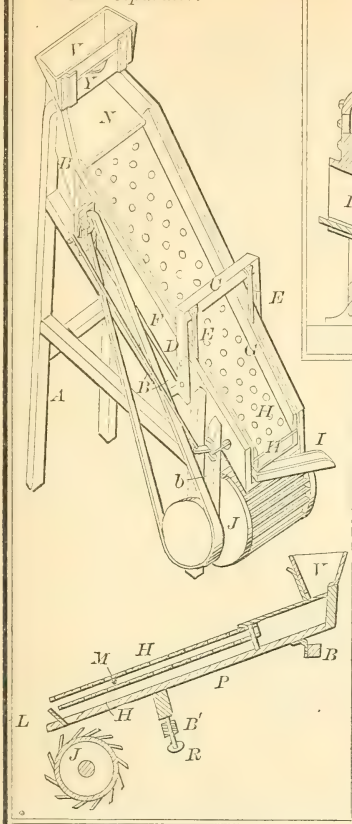

**89082**—Saltsman, Charlesworth & Osgood—*Harvester.*



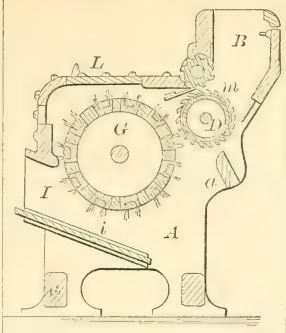

**89080**—G. W. Rogers—*Pump.*



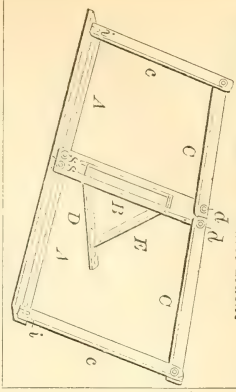
**89081**—M. M. Rowell—*Seed Separator.*



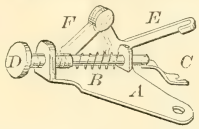
**89083**—C. G. Sargent—*Cotton Gin*



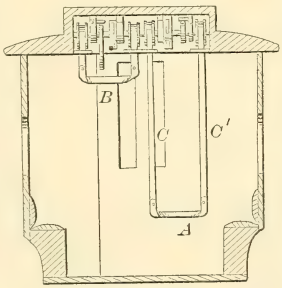
**89084**—A. Schäffer—*Music Rack.*



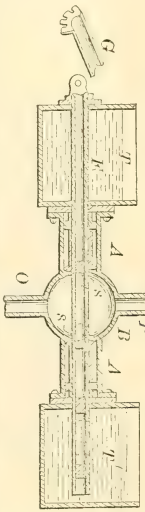
**89085**—C. Scharffe—*Sewing Machine Attachment.*



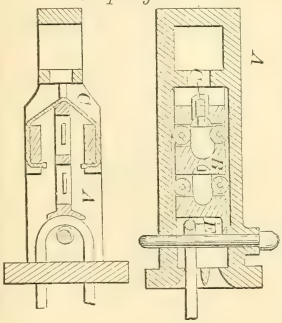
**89086**—P. Shaw—*Car.*



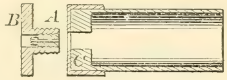
**89087**—Shirk & Martin—*Boiler Feeder.*



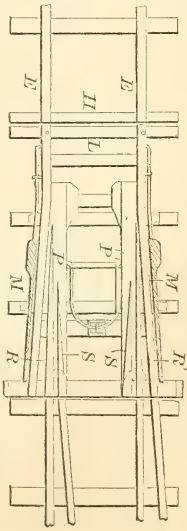
**89089**—J. F. Spaulding—*Car Coupling.*



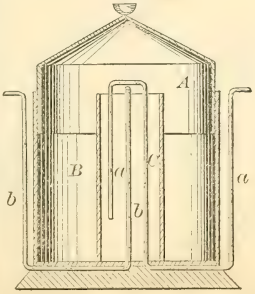
**89088**—Smith & Storrs—*Cartridge.*



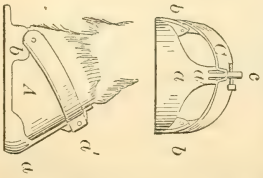
**89092**—C. A. S. Temple—*Switch.*



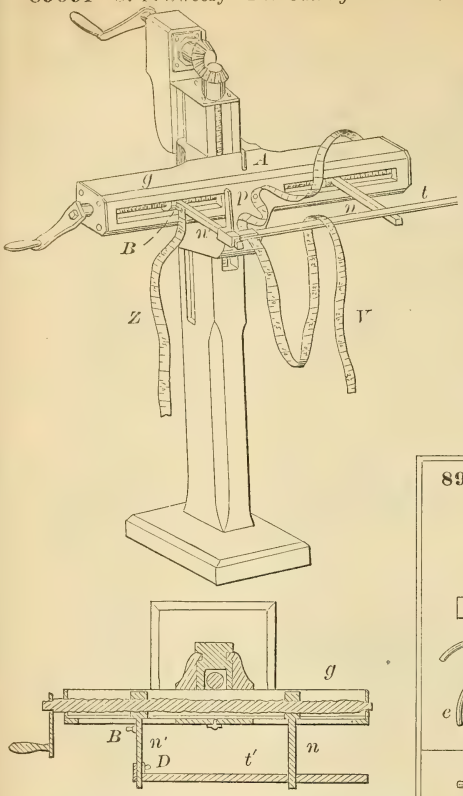
**89090**—C. A. Stebbins—*Gas Holder.*



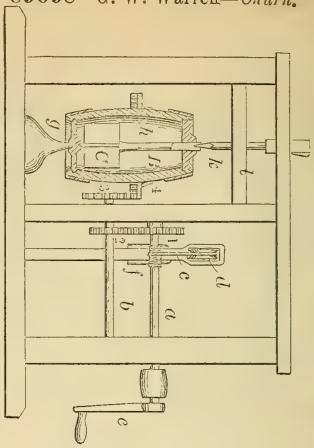
**89096**—J. H. Tyler—*Horse Shoe.*



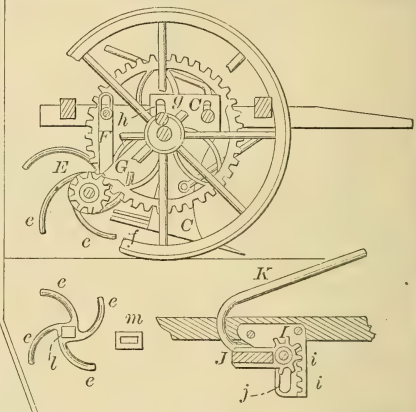
**89091**—G. P. Sweezy—*For Cutting Garments.*



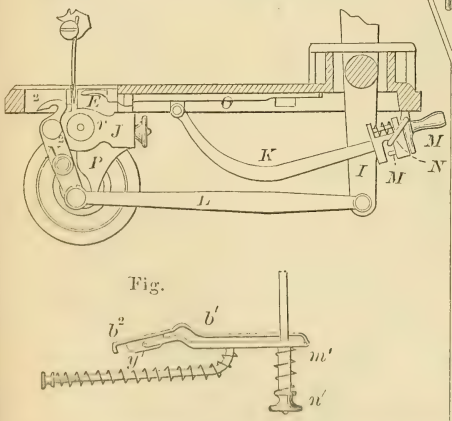

**89098**—G. W. Warren—*Churn.*



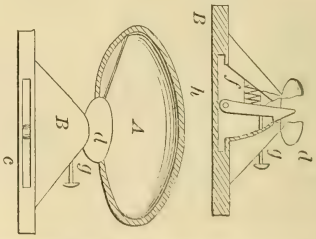

**89099**—Webster & Powers—*Potato Digger.*



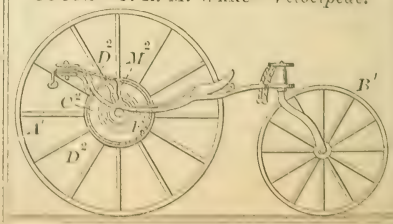

**89093**—A. Tittman—*Sewing Machine.*



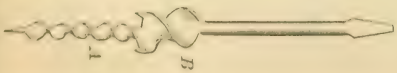

**89101**—J. S. White—*Door Holder.*



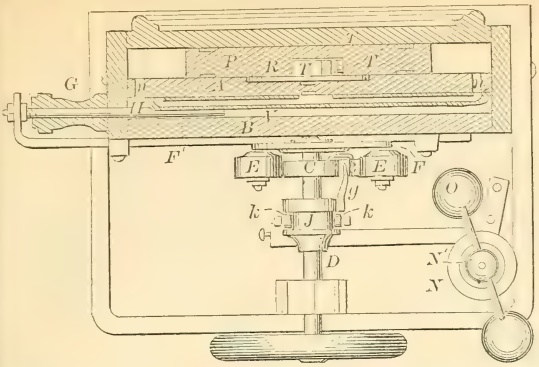

**89102**—T. E. M. White—*Velocipede.*



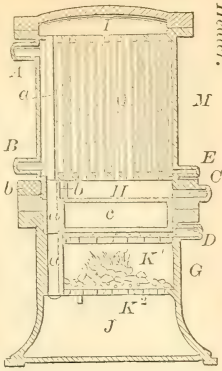

**89097**—C. Wardwell—*Auger.*



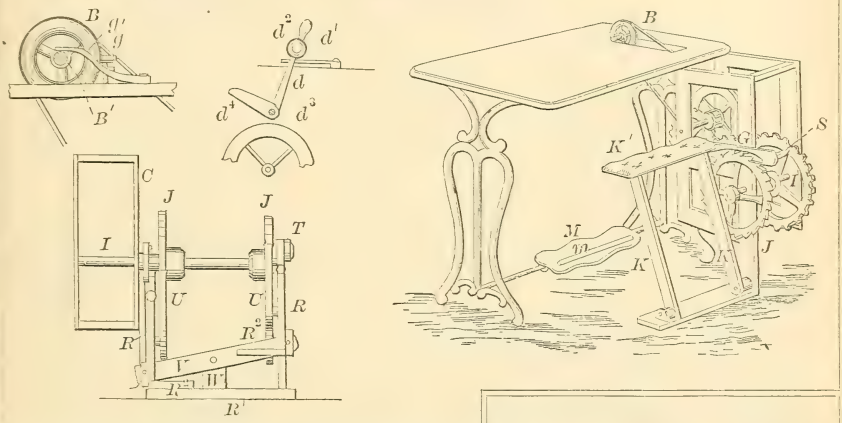
**89103**—A. Whittemore—*Valve Gearing.*



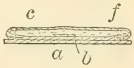

**89106**—B. F. Wilson—*Filtering Feed Water Heater.*



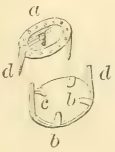

**89104**—A. Whittemore—*For Sewing Machines.*



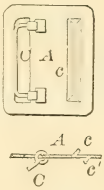

**89105**—W. Williams—*Insole.*



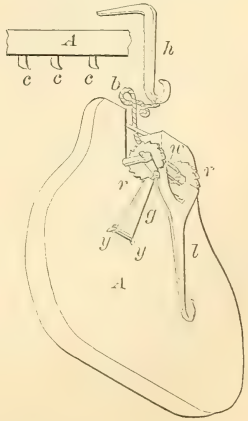

**89108**—L. C. Woehning—*Size Mark for Hats.*



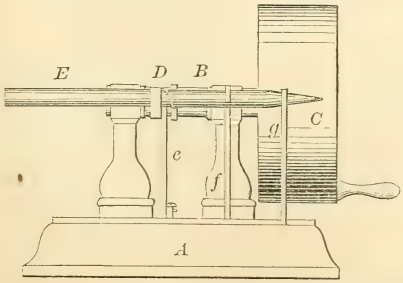

**89110**—C. E. Woodman—*Buckle.*



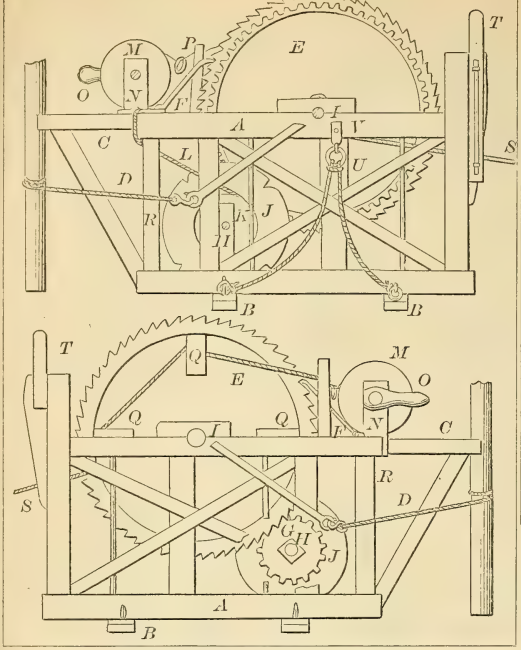

**89107**—Wilson & Appleyard—*Carpet Stretcher.*



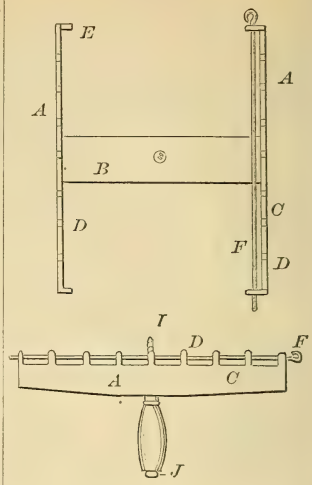

**89109**—S. S. Woodcock—*Pencil Sharpener.*



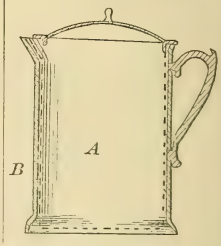
**89111**—J. A. Woodworth—*For Moving Heavy Bodies.*



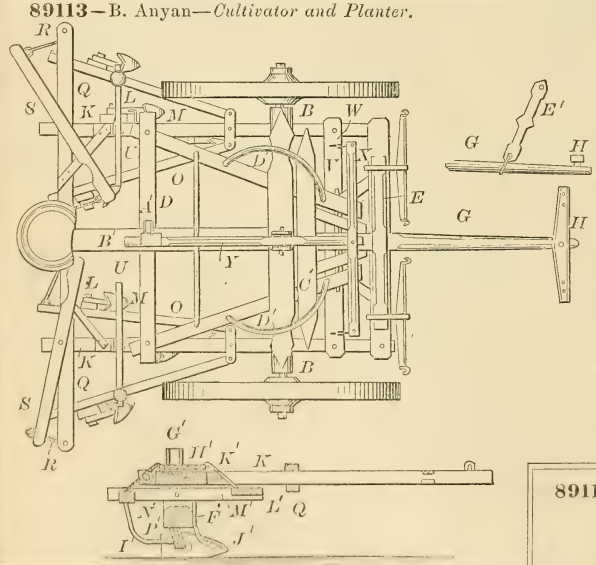
**89112**—W. S. Wright—*Lathing Machine.*



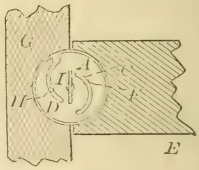
**89114**—A. Arnold—*Tea Pot Case.*



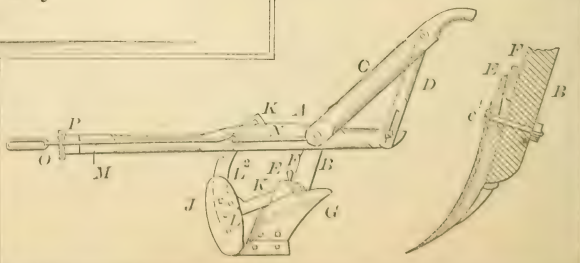
**89113**—B. Anyan—*Cultivator and Planter.*



**89116**—J. Barnes—*Bedstead Fastening.*

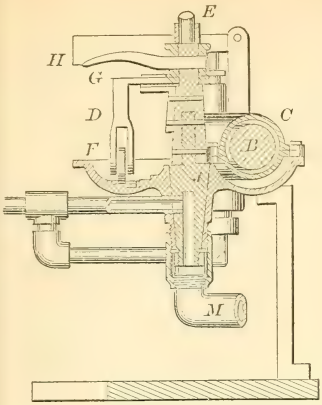


**89115**—G. M. Atherton—*Plow*

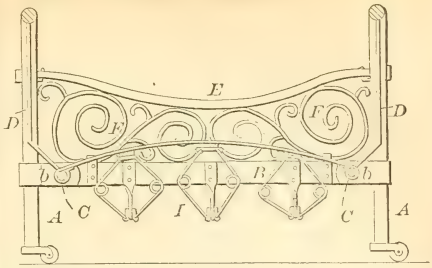


**89118**—S. S. Bent—*Hook for Supporting Carriage Poles.*

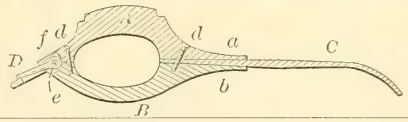
**89117**—F. Bauschtliker—*Hydrant.*



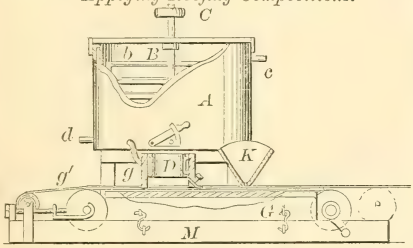

**89119**—J. Bohmer—*Bedstead.*



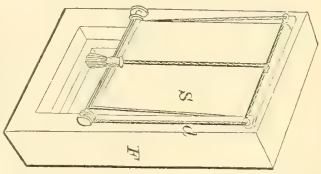

**89120**—R. O. & D. W. Brackett—*Shaft Support.*



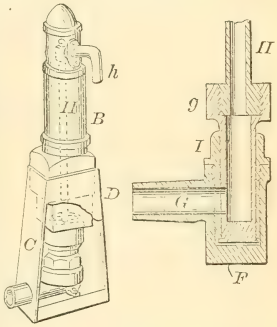

**89122**—B. S. Brown—*For Compounding and Applying Roofing Compositions.*



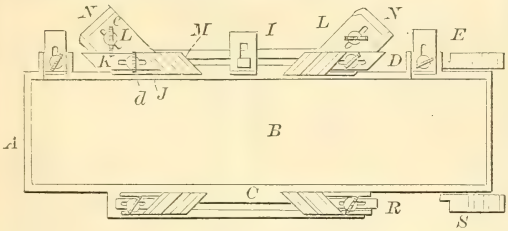

**89126**—A. M. Cheney—*Curtain Fixture.*



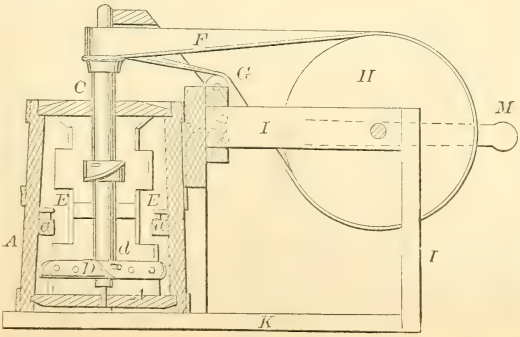

**89123**—J. G. Bryan—*Hydrant.*



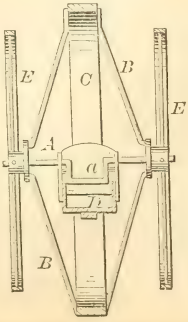

**89124**—R. & R. T. Burchell—*Mitre Box.*



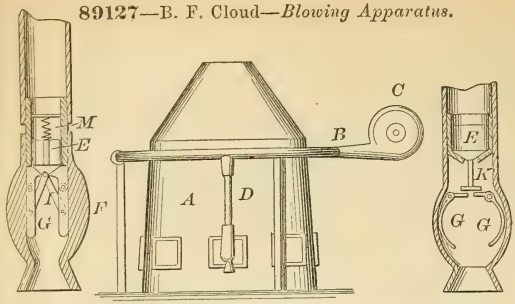

**89125**—J. Carl—*Churn Dasher.*



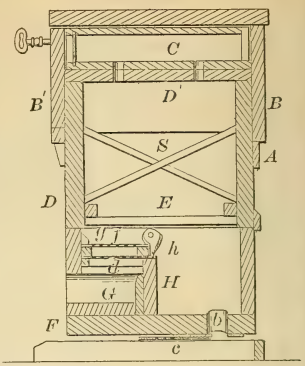

**89128**—H. S. Cohn—*Velocipede.*



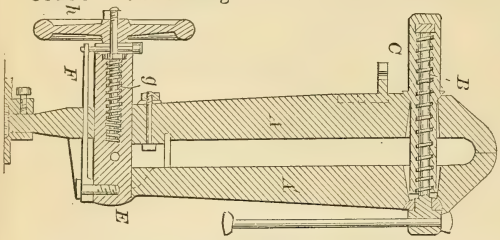
89127—B. F. Cloud—*Blowing Apparatus.*



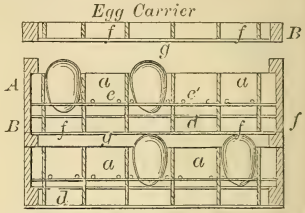

89129—J. H. Crandell—*Beehive.*



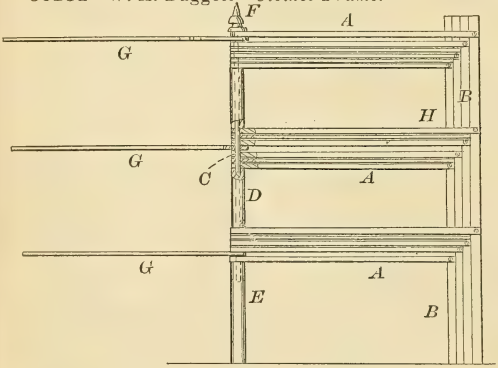

89130—D. S. Cumings—*Vise.*



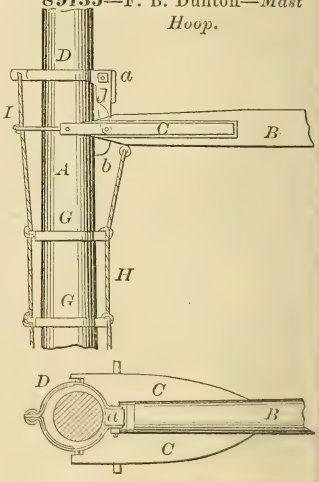

89133—Dorn & Shibley—*Egg Carrier*



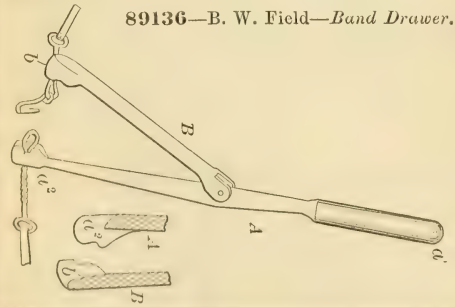

89131—W. A. Daggett—*Clothes Frame.*




89135—F. B. Dunton—*Mast Hoop.*

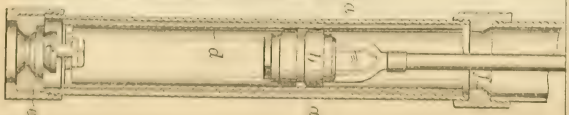



89136—B. W. Field—*Band Drawer.*

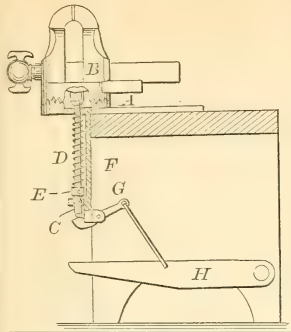



89137—E. L. Freeman—*Cultivator Tooth.*

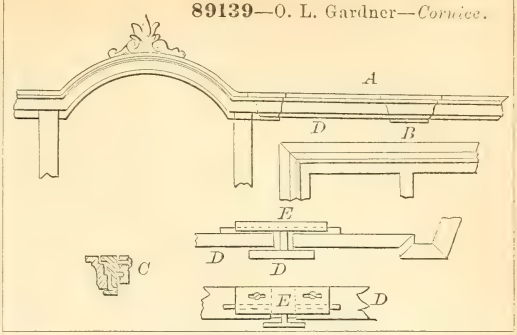
89134—C. H. Duncan—*Tubular Pump.*



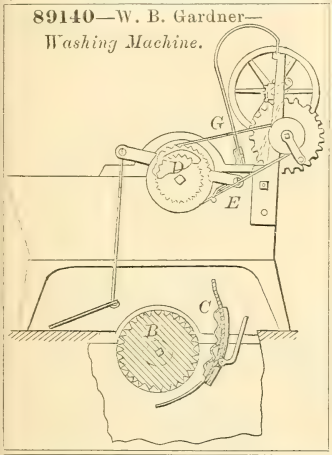
**89138**—F. H. Furniss—*Vise.*



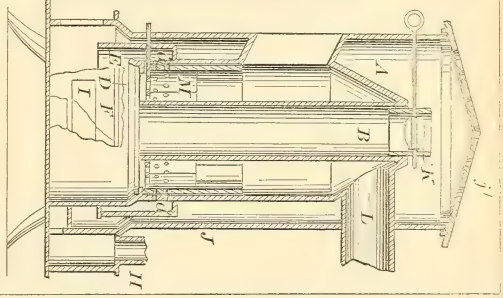

**89139**—O. L. Gardner—*Cornice.*



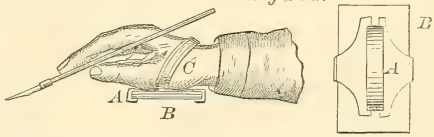

**89140**—W. B. Gardner—*Washing Machine.*



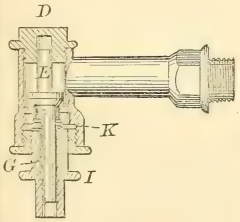

**89141**—J. H. Goodfellow—*Stove.*



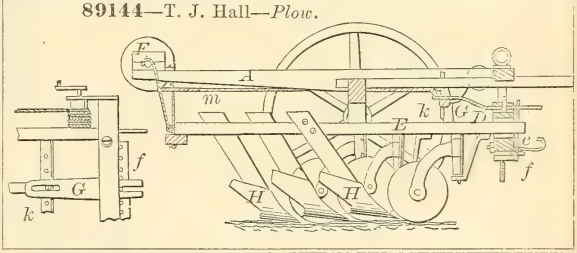

**89142**—P. Gorsline—*Blotting Pad.*



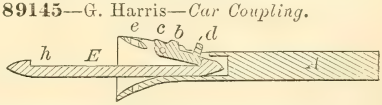

**89143**—J. Gregg—*Water Cock.*



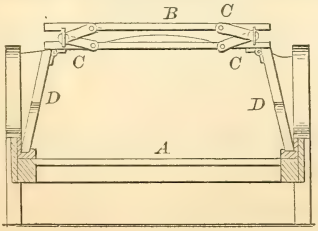

**89144**—T. J. Hall—*Plow.*

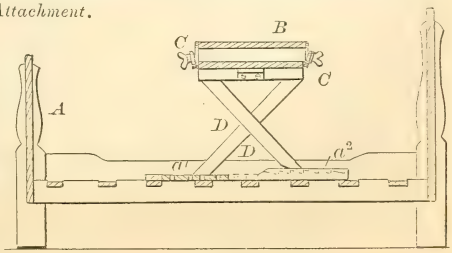



**89145**—G. Harris—*Car Coupling.*

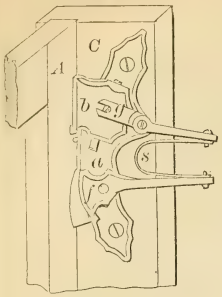



**89146**—E. D. W. Hatch—*Bedstead Attachment.*

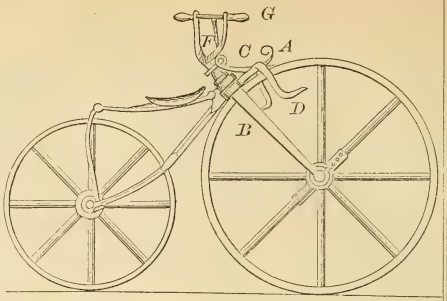


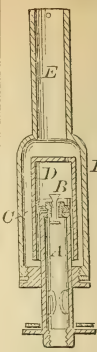
**89147**—E. W. Haven—*Sash Holder.*



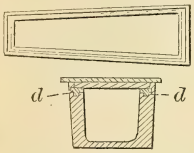
**89149**—J. Irving—*Velocipede.*



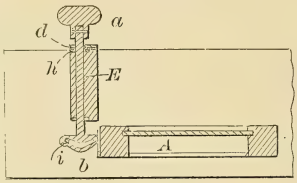
**89151**—J. Keane—*Valve.*



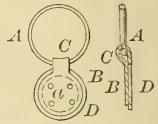
**89148**—C. S. Hurlbut—*Burial Casket.*



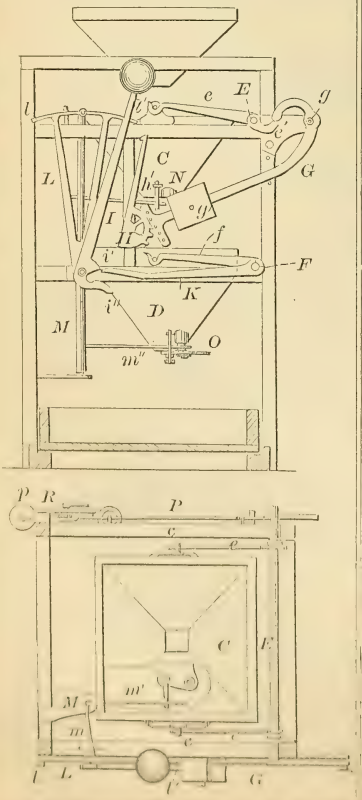
**89150**—S. E. Jewett—*Shutter Worker.*

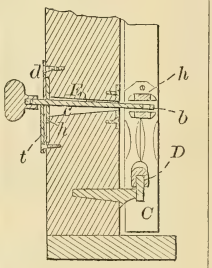


**89152**—J. L. Kendall—*Garment Supporter.*

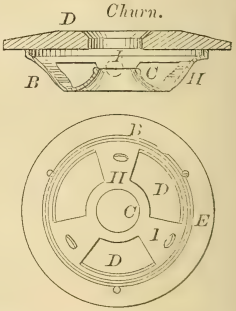


**89153**—Lettelier & White—*Weighing Machine.*

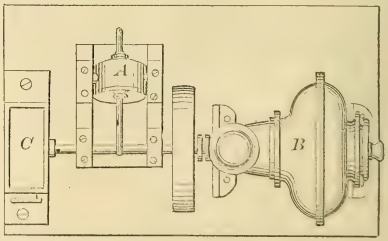




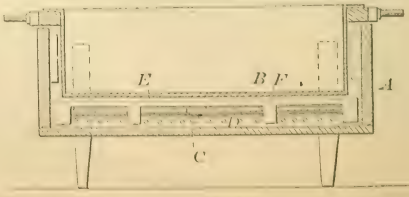
**89155**—P. F. Lewis—*Churn.*



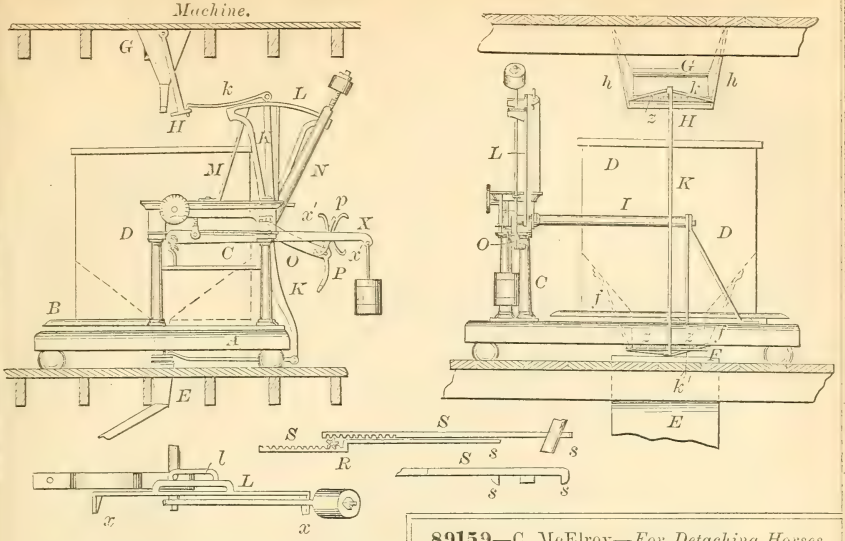
**89156**—W. A. Lighthall—*Steam Engine.*



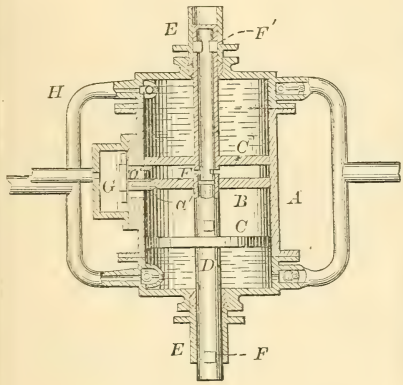
**89157**—R. M. Livingston—*Cheese Vat.*



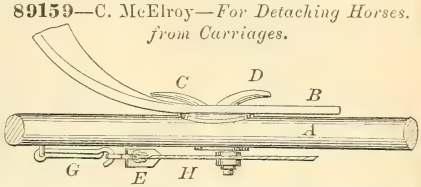
**89154**—Lettelier & White—*Weighing Machine.*



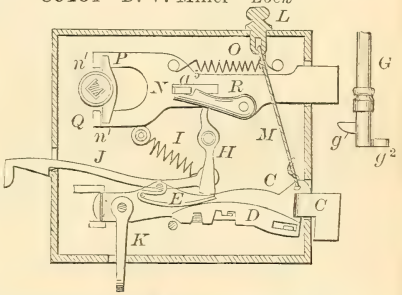

**89158**—J. McCoskey—*Steam Pump.*



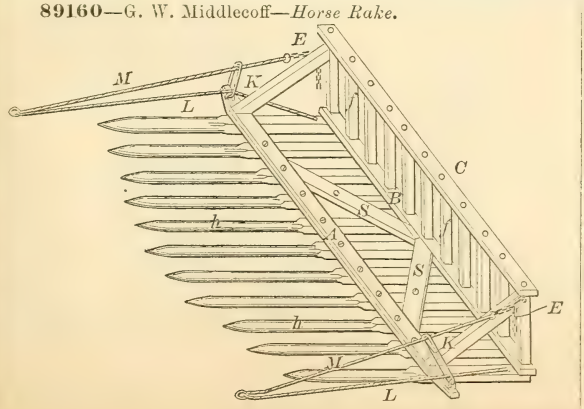

**89159**—C. McElroy—*For Detaching Horses from Carriages.*



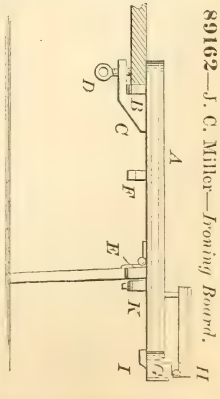

**89161**—D. V. Miller—*Lock*



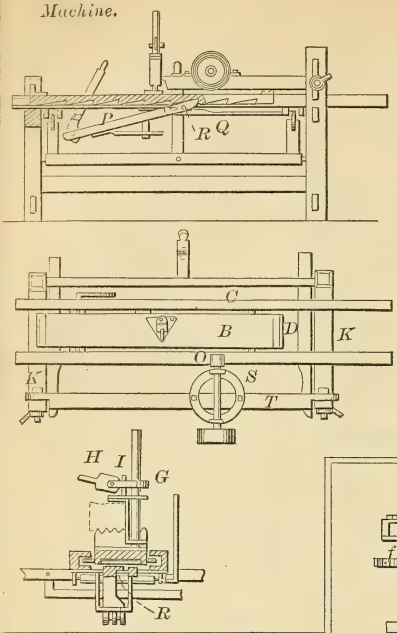

**89160**—G. W. Middlecoff—*Horse Rake.*



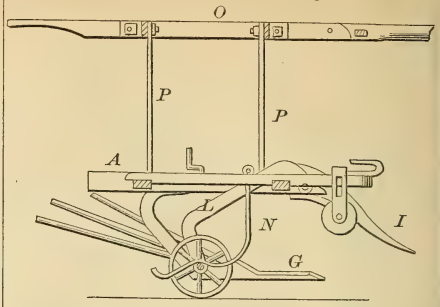

**89162**—J. C. Miller—*Ironing Board.*



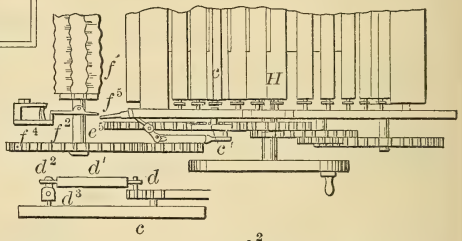
**89163**—B. F. Mohr—*Wood Boring Machine.*

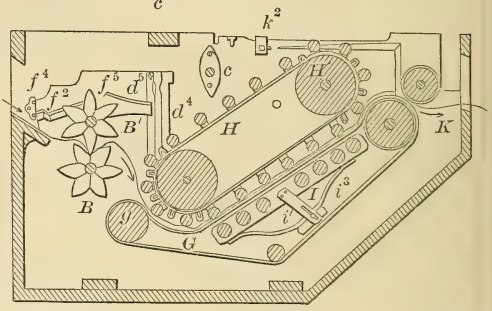



**89164**—S. R. Niles—*For Pulling Beans.*

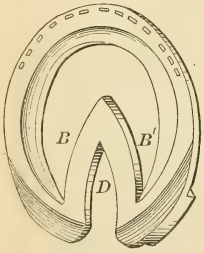



**89166**—J. Pinter—*Washing and Wringing Machine.*

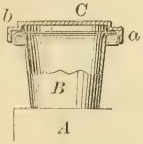



**89165**—R. H Parks *Horse Shoe.*

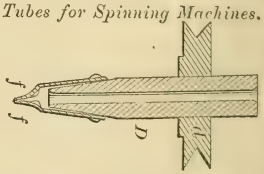



**89167**—C. Pratt—*Can Nozzle.*

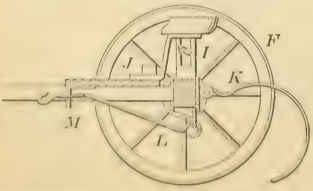


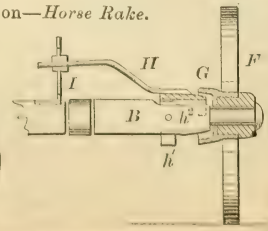

**89168**—A. C. Rand—*Whip.*

**89170**—C. Roberts—*For Twisting Tubes for Spinning Machines.*

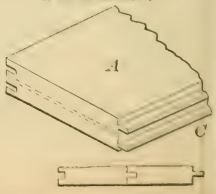



**89169**—G. M. & C. C. Richardson—*Horse Rake.*

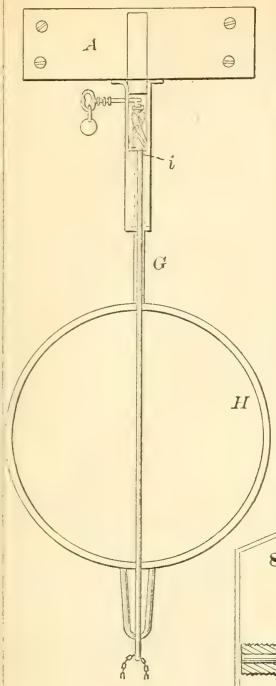


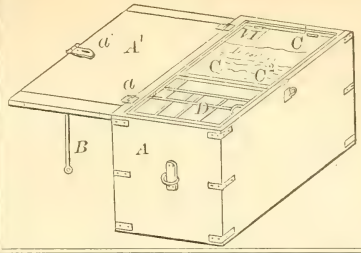

**89172**—E. B. Rowe—*For Lumber.*



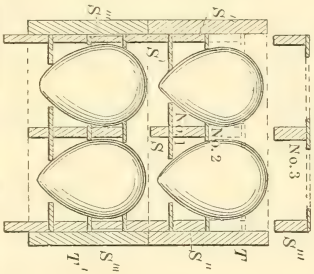
**89171**—F. W. Roth—*Hat Rack.*




**89173**—E. Sander—*Medicine Chest.*

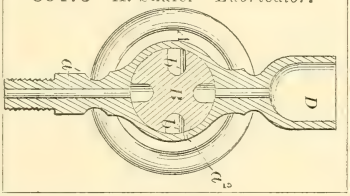


**89174**—A. Selkirk—*Egg Carrier.*

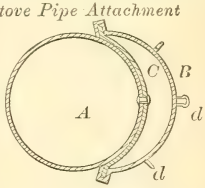



**89176**—C. F. Shourds—*Feather Duster.*

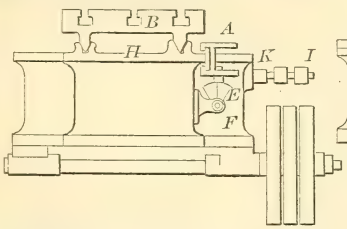
**89175**—A. Shafer—*Lubricator.*

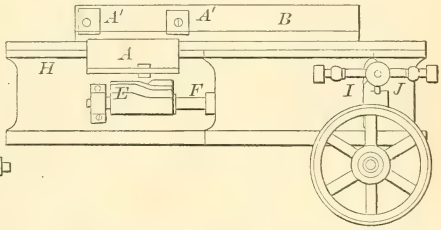



**89181**—Stoddard & Hoyt—*Stove Pipe Attachment*

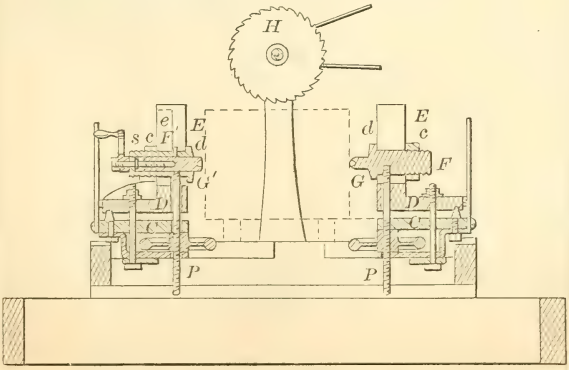



**89177**—D. Slate—*For Metal Planers.*

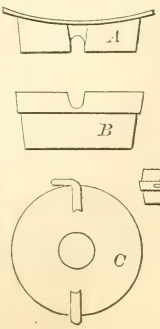


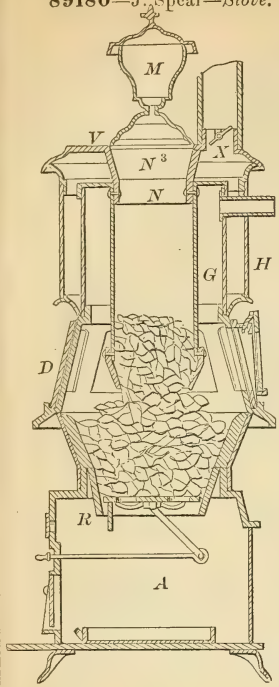

**89178**—C. Sommer—*Saw Mill.*



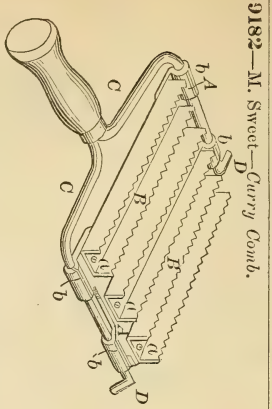

**89179**—J. Spear—*Stove Collar and Damper.*



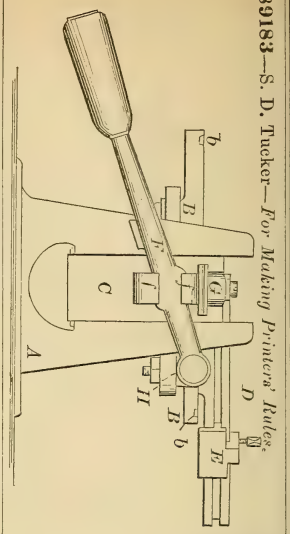
**89180**—J. Spear—*Stove.*



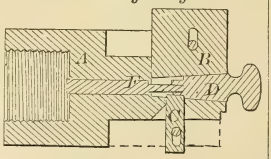

**89182**—M. Sweet—*Curry Comb.*




**89183**—S. D. Tucker—*For Making Printers' Rules.*

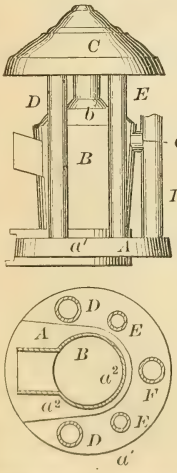



**89184**—W. Tweedle—*For Making Plugs.*

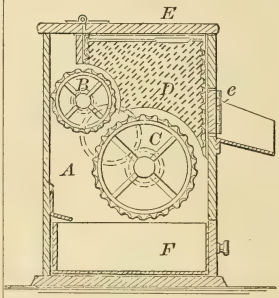



**89188**—J. F. Waehsmuth—*For Transferring Oil Paintings.*

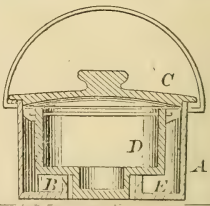
**89185**—J. S. Van Buren—*Stove.*



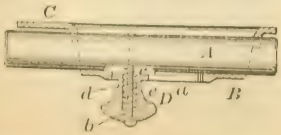

**89190**—W. Zeiger—*Potato Peeler.*



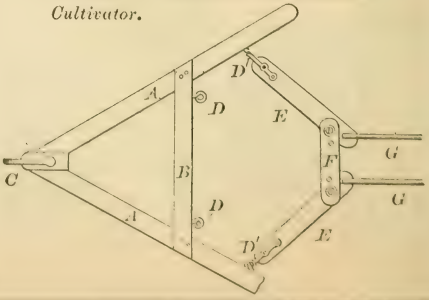

**89189**—F. Wilcox—*Boiler.*



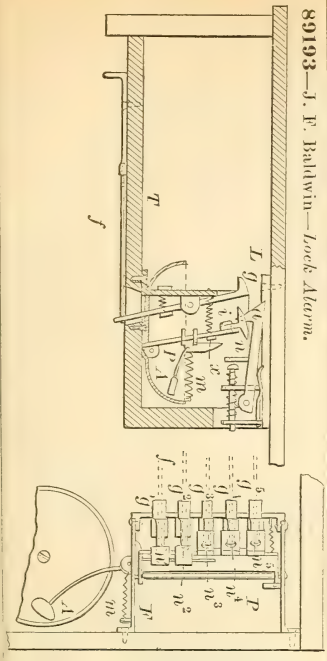

**89191**—Arnold & Steele—*Door Bolt.*



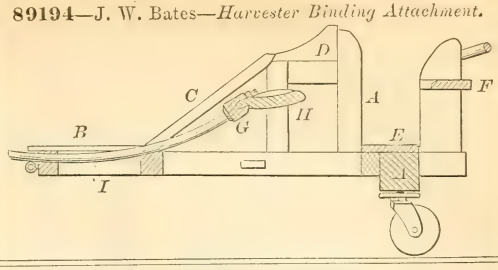

**89192**—A. M. Bakewell—*Harrow and Cultivator.*



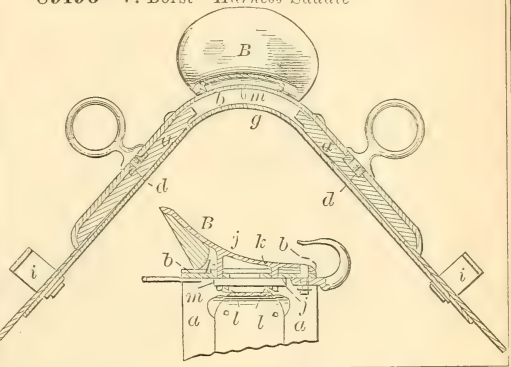
**89193**—J. F. Baldwin—*Lock Alarm.*



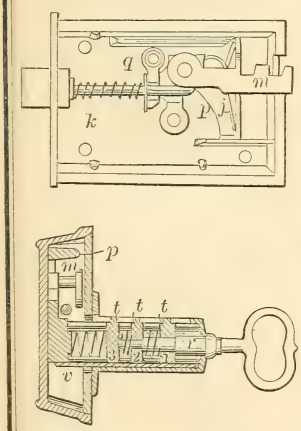
**89194**—J. W. Bates—*Harvester Binding Attachment.*



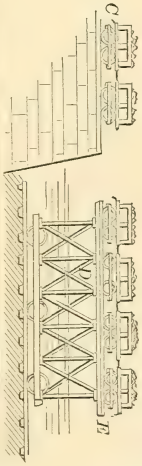
**89196**—V. Borst—*Harness Saddle*



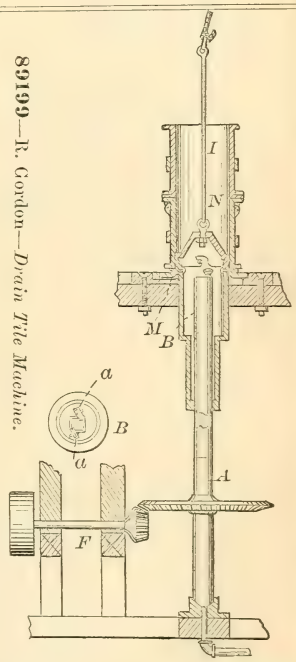
**89197**—E. W. Brettell—*Latch.*



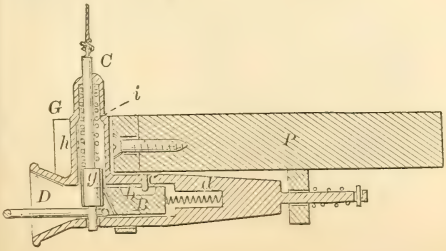
**89201**—O. Cogsil—*Ferry Railway.*



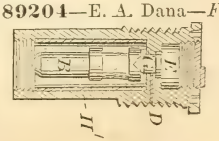
**89199**—R. Gordon—*Drain Tile Machine.*



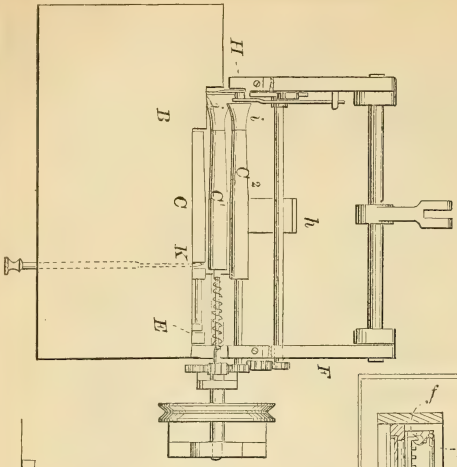
**89202**—E S. Cram—*Car Coupling.*

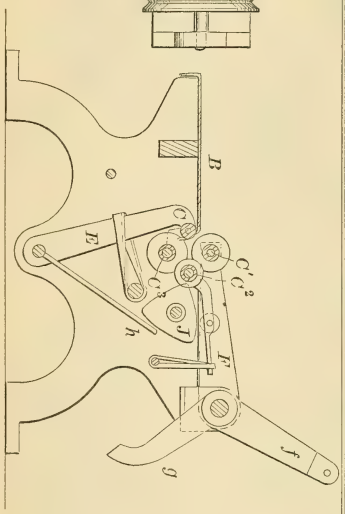


**89204**—E. A. Dana—*Fuse.*

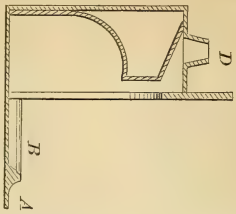


**89200**—G. B. Clarke—*Cigar Machine.*

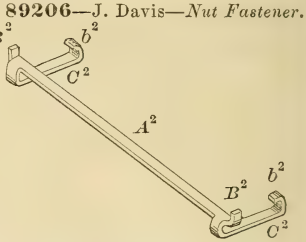


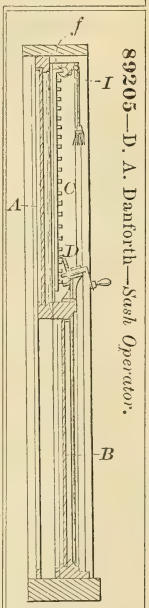

**89203**—A. D. Dailey—*Fireplace.*



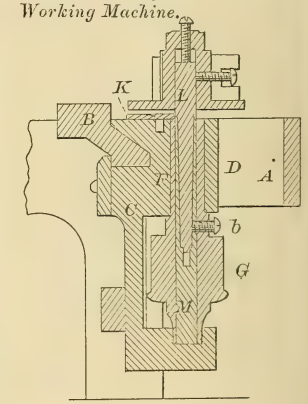

**89206**—J. Davis—*Nut Fastener.*



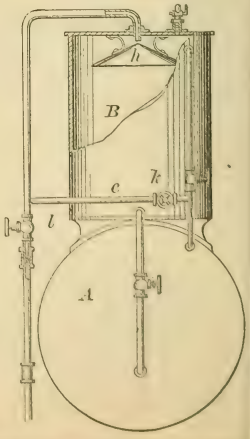

**89205**—D. A. Danforth—*Sash Operator.*



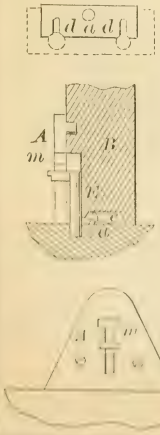

**89207**—G. Dryden—*Wood Working Machine.*



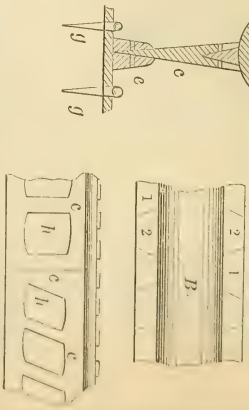

**89208**—W. F. Duerr—*Feed Water.*



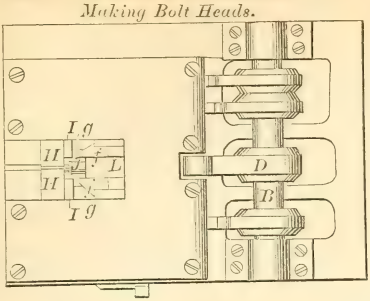

**89209**—E. S. Earley—*Bedstead Fastener.*



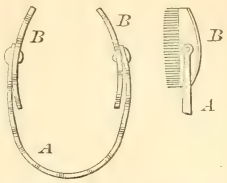

**89210**—Z. Eastman—*For Railways.*



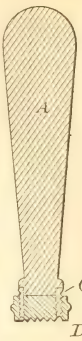
**89211**—C. H. & J. F. Emerson—*For Making Bolt Heads.*

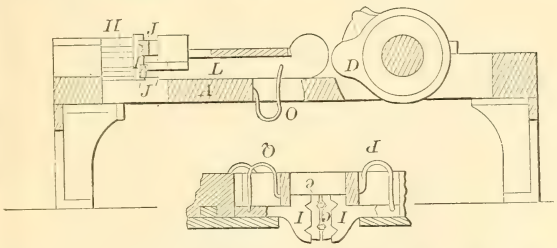



**89212**—O. B. Gallup—*Comb.*

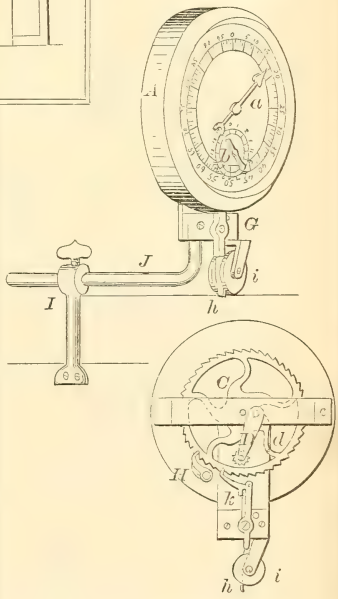



**89213**—J. C. Gaston—*Stamp Canceler.*

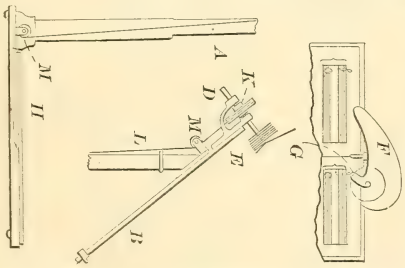


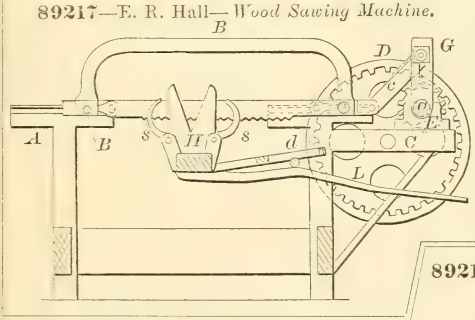

**89215**—J. J. Groshans—*Counting Register.*



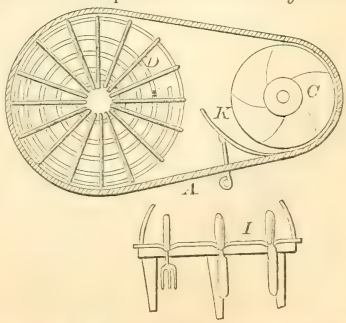

**89214**—J. Grant—*For Turning Book Leaves.*

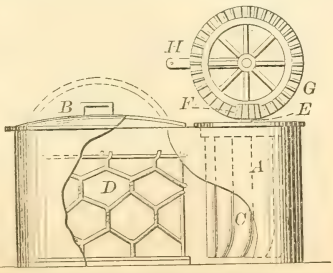



**89217**—E. R. Hall—*Wood Sawing Machine.*

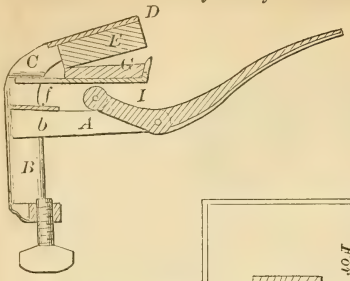



**89216**—D. Guptail—*Dish Washing Machine.*

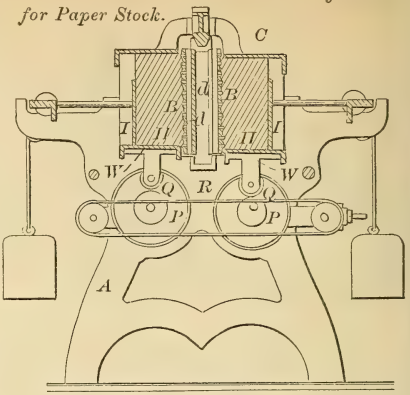


**89218**—C. H. Hardy—*Knife Cleaner.*

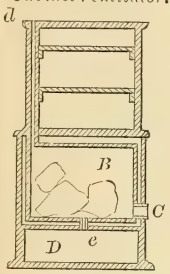



**89221**—J. H. Hawes—*For Reducing Wood for Paper Stock.*

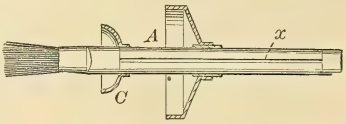



**89220**—J. H. Hawes—*For Paper Stock.*

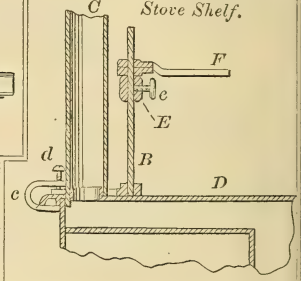
**89219**—S. Harnden—*Cabinet Ventilator.*



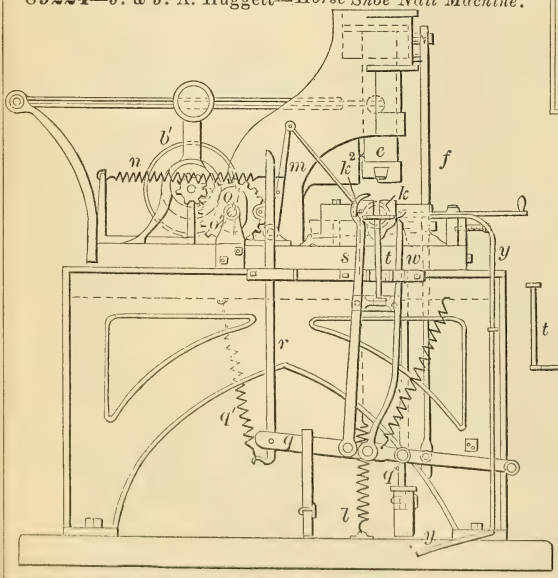

**89222**—T. N. Hickcox—*Brush Handle.*

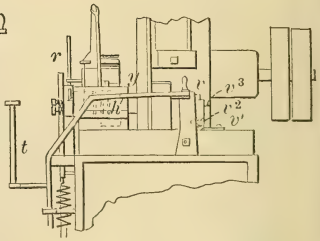



**89223**—F. W. Hudson—*Stove Shelf.*

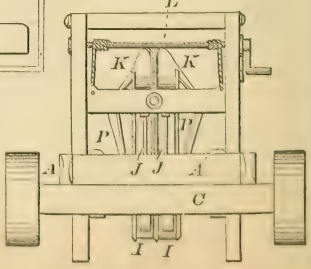



**89224**—J. & J. A. Huggett—*Horse Shoe Nail Machine.*

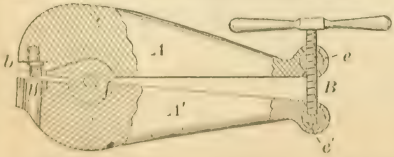


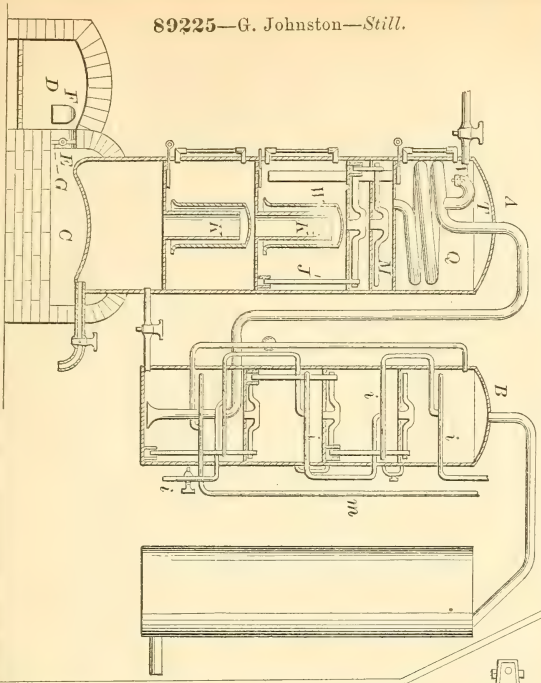

**89227**—P. Lugenbell—*Ditching Machine.*



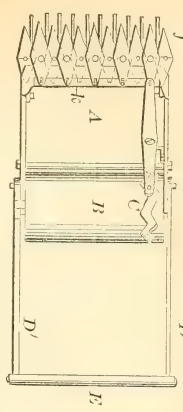

**89226**—R. Kent—*Punching Apparatus.*



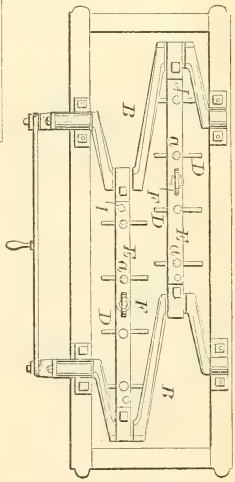
**89225**—G. Johnston—*Still.*



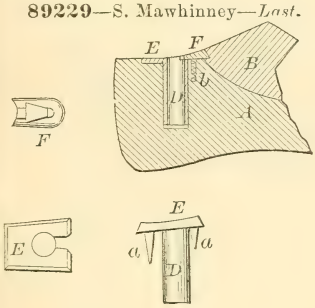
**89230**—B. Merritt, Jr.—*Lawn Mower.*



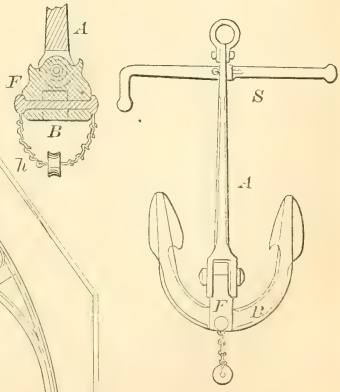
**89231**—D. S. Merritt—*Propelling Apparatus.*



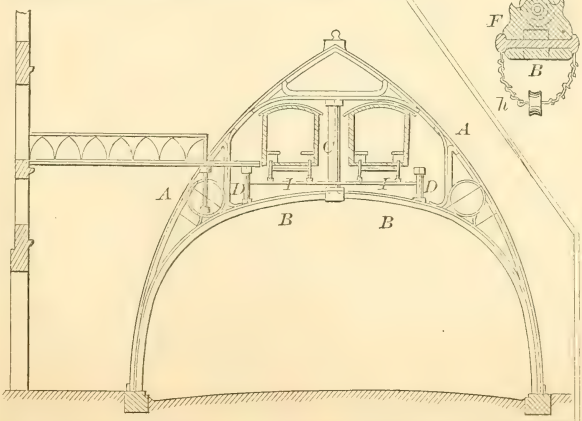
**89229**—S. Mawhinney—*Last.*



**89232**—J. W. Morgan—*Anchor.*



**89233**—R. P. Morgan, Jr.—*Railway.*



**89234**—S. Oedamer—*Washing Machine.*

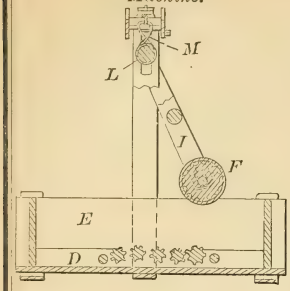
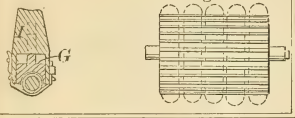
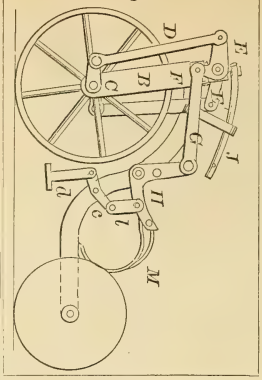


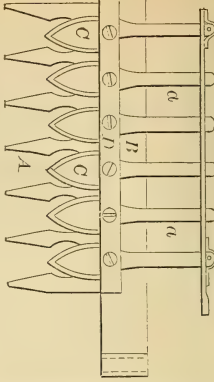

Fig. 3



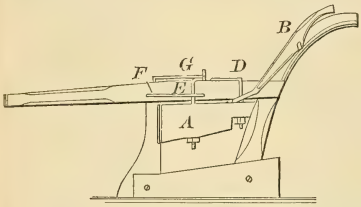

**89235**—A. O'Neill—*Velocipede.*



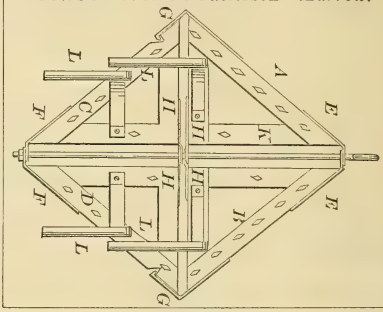

**89236**—J. H. Owen—*Harvester Cutter.*



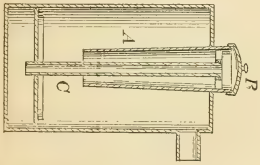

**89237**—J. A. B. Patterson—*Plow Cleaner.*



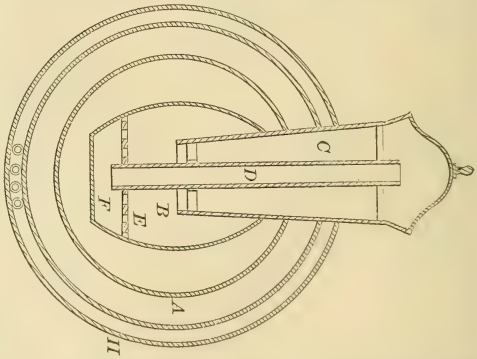

**89238**—J. A. B. Patterson—*Harrow.*



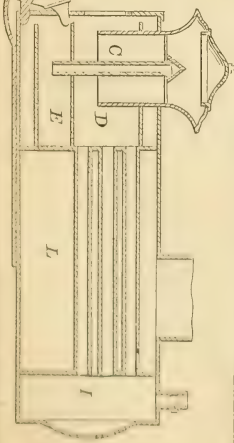

**89239**—T. T. Prosser—*Furnace.*



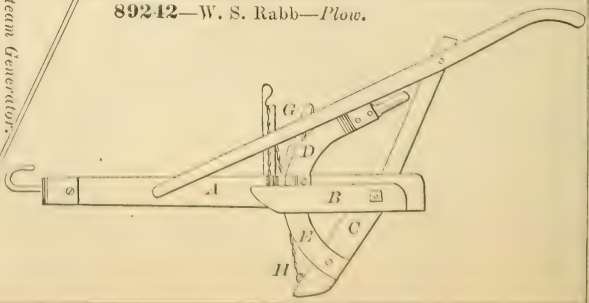

**89240**—T. T. Prosser—*Steam Generator*



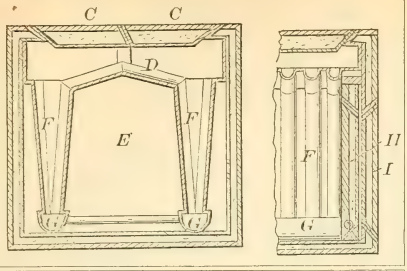

**89241**—T. T. Prosser—*Steam Generator.*



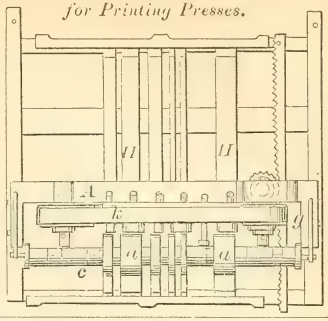

**89242**—W. S. Rabb—*Plow.*



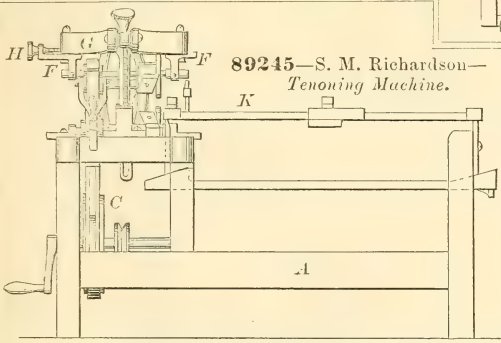
**89243**—J. H. Racey—*Refrigerator.*



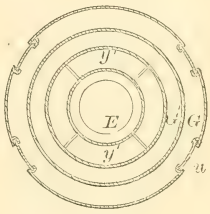

**89244**—I. L. G. Rice—*Inking Apparatus for Printing Presses.*

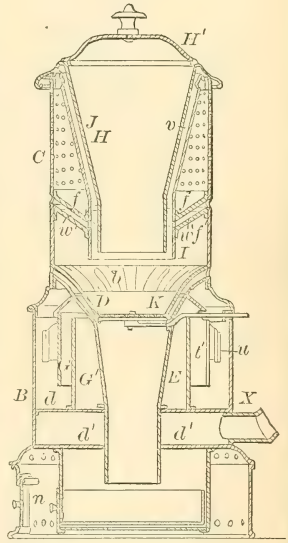



**89245**—S. M. Richardson—*Tenoning Machine.*

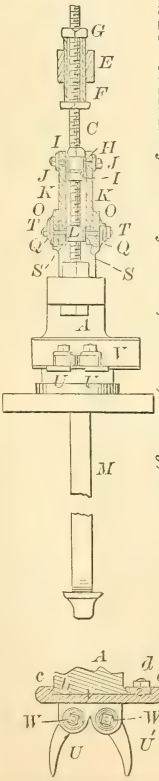



**89248**—J. Q. C. Searle—*Stove.*

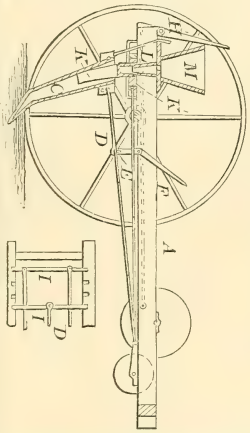


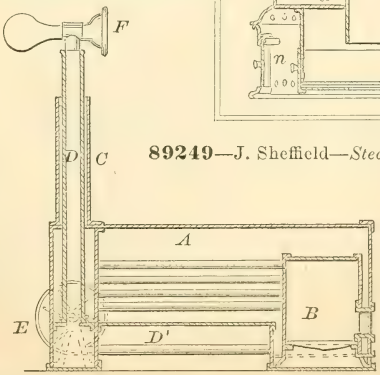

**89246**—J. M. Riley—*Press for Peas, Buttons, Jewelry, &c.*



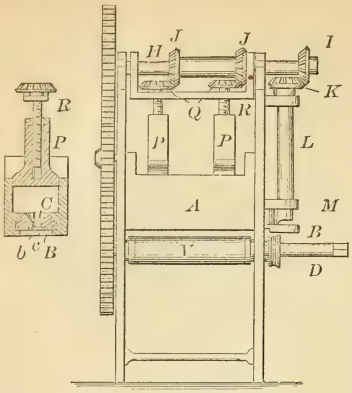

**89247**—P. J. Schmitt—*Grain Drill.*



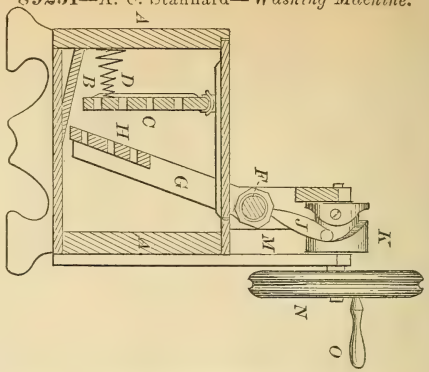

**89249**—J. Sheffield—*Steam Generator.*



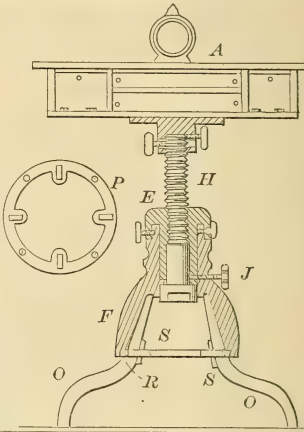
**89250**—T. Sloat—*Cracker Machine.*



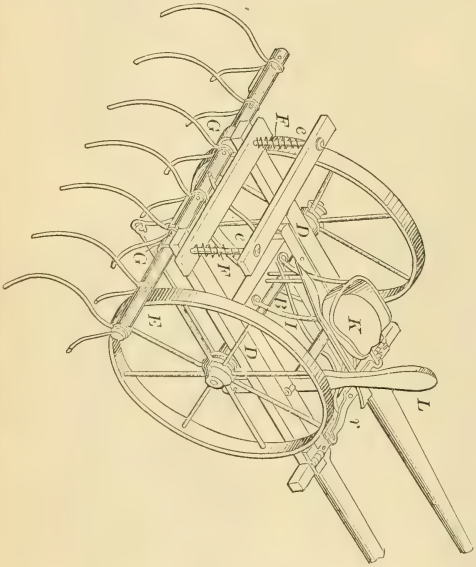

**89251**—A. C. Stannard—*Washing Machine.*



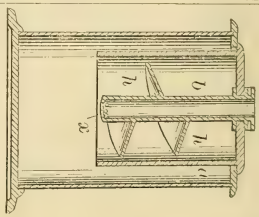

**89252**—N. Stockwell—*Table.*



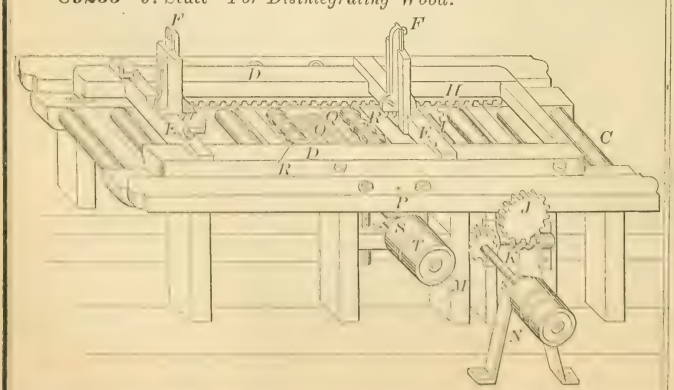

**89256**—M. N. Ward—*Horse Rake.*



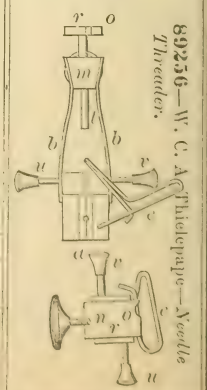

**89260**—R. B. Willis—*Stove.*



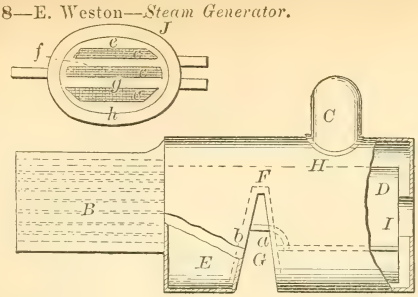

**89255**—J. Stutt—*For Disintegrating Wood.*

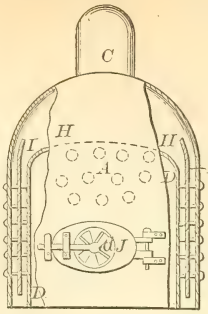



**89256**—W. C. A. Thielepape—*Needle Threader.*

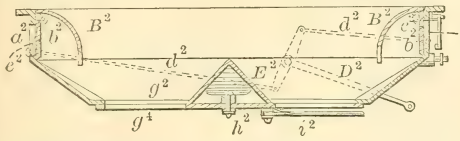


**89258**—E. Weston—*Steam Generator.*

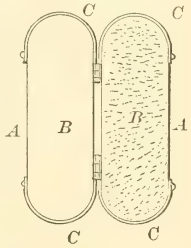


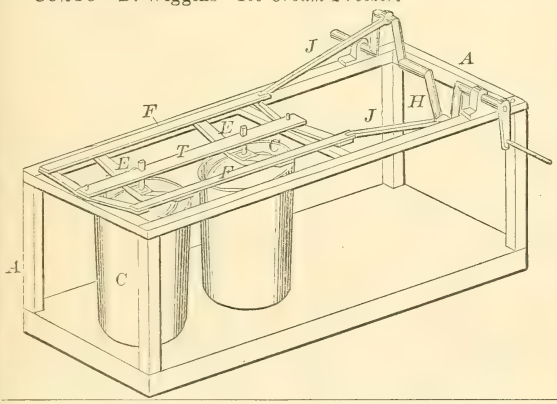

**89261**—D. W. Wyman—*Locomotive Furnace.*



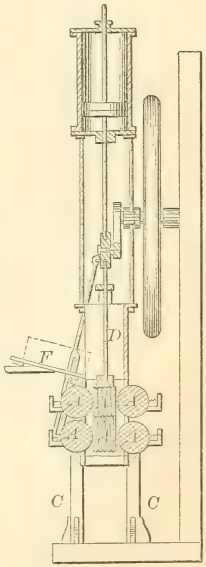

**89262**—A. R. Fuller—*Sad Iron Cleaner.*



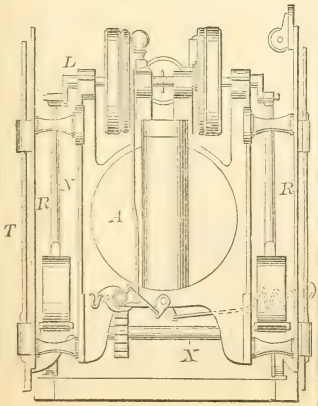

**89259**—D. Wiggins—*Ice Cream Freezer.*



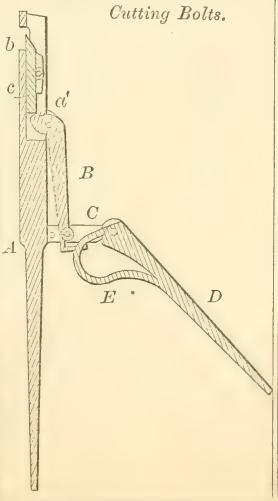

**89263**—J. Lyon—*For Cleaning Bricks.*



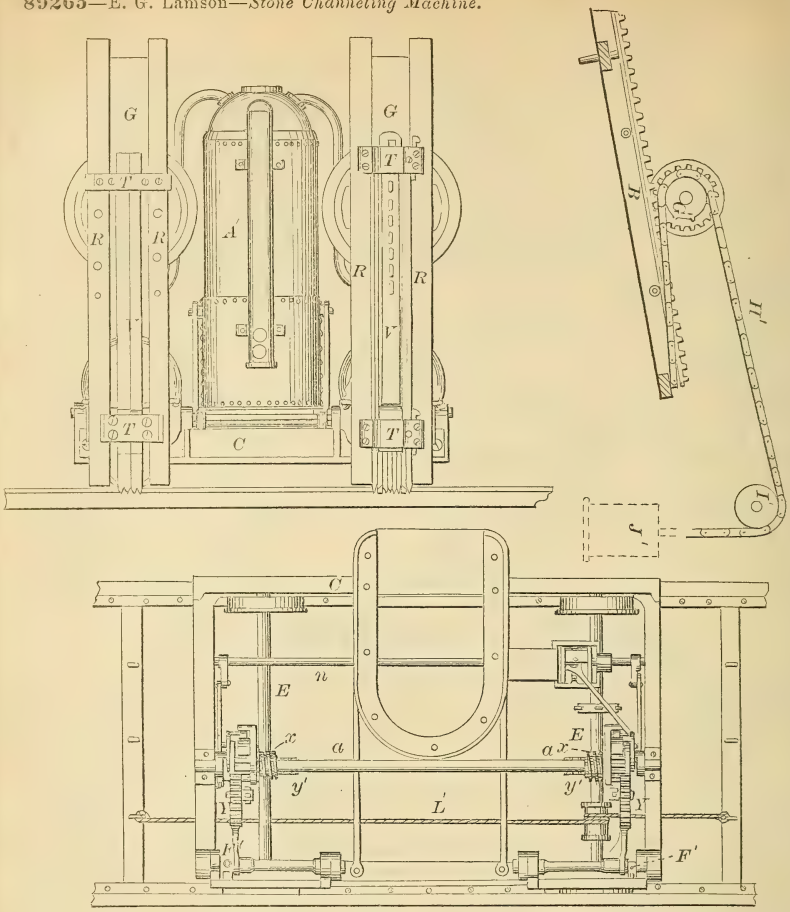

**89264**—E. G. Lamson—*Rock Channeling Machine.*



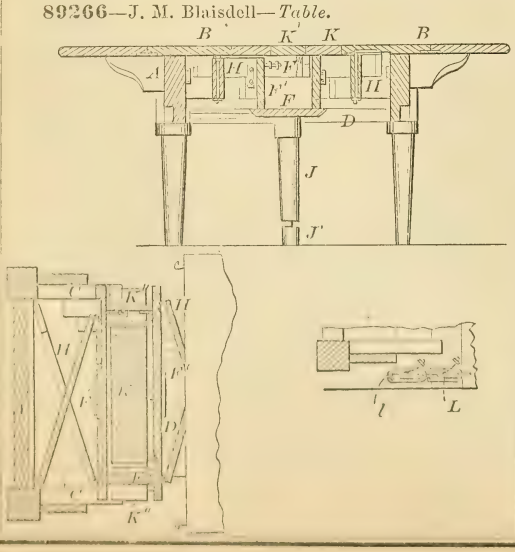

**89267**—Adair & Pool—*For Cutting Bolts.*



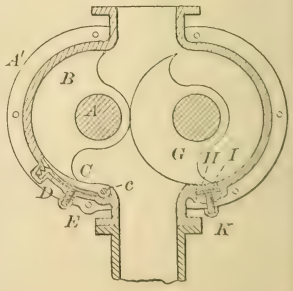
**89265**—E. G. Lamson—*Stone Channeling Machine.*



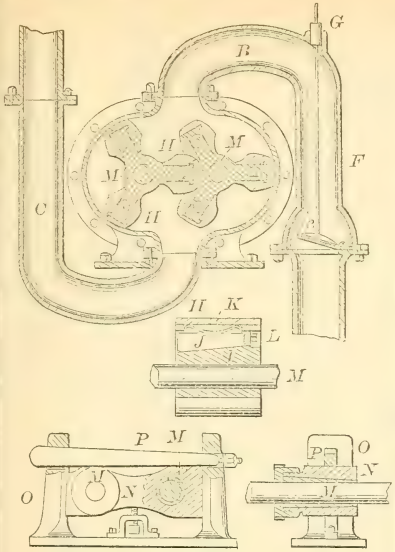

**89266**—J. M. Blaisdell—*Table.*



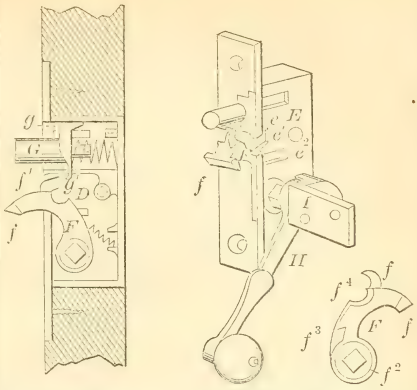

**89268**—M. L. Andrew—*Pump.*



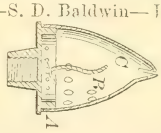
**89269**—M. L. Andrew—*Pump.*



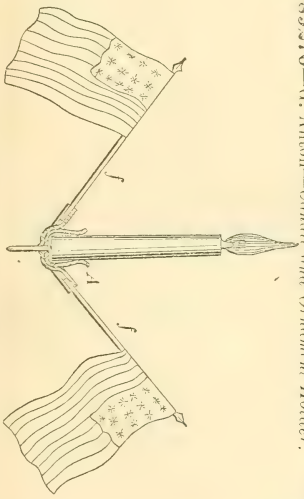
**89272**—R. R. Ball—*Sash Lock.*



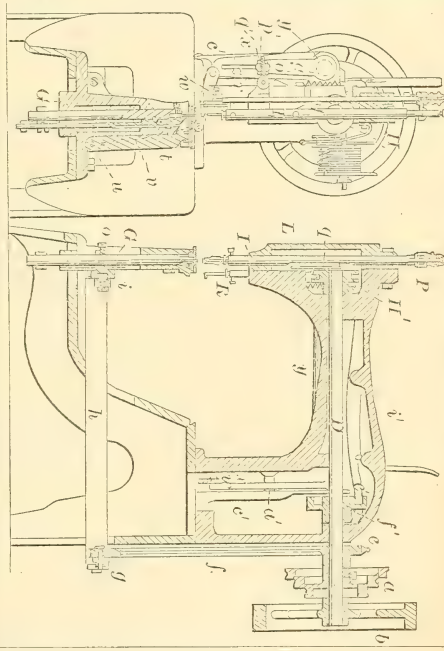
**89271**—S. D. Baldwin—*Vapor Burner.*



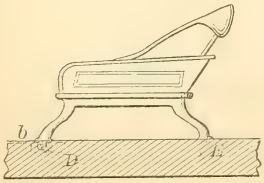
**89270**—G. Anton—*Candle and Ornament Holder.*



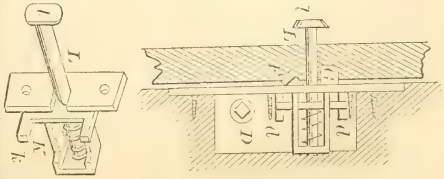
**89275**—E. E. Bean—*For Sewing Leather.*



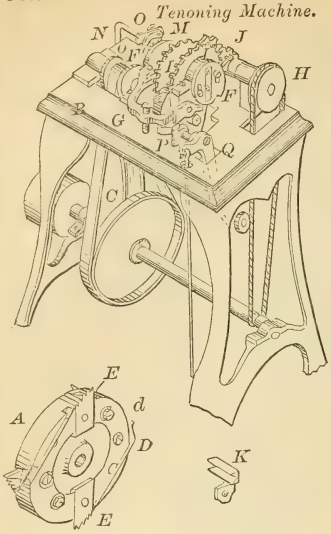
**89276**—W. Beers—*Carriage Seat Fastening.*



**89473**—R. R. Ball—*Sash Lock.*

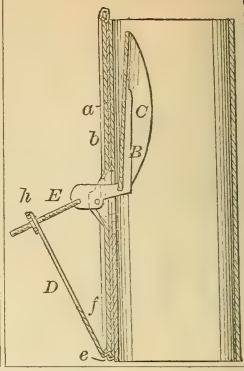


**89277**—H. Bickford—*Blind Slat Tenoning Machine.*

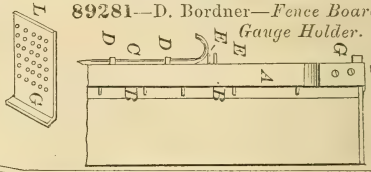



**89278**—J. E. Blodgett—*Stove Cover Holder.*

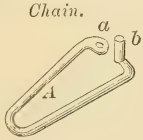
**89280**—R. Blum—*Stove Governor.*



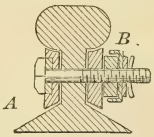

**89281**—D. Bordner—*Fence Board Gauge Holder.*



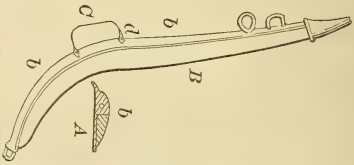

**89282**—J. F. Brewer—*Chain.*



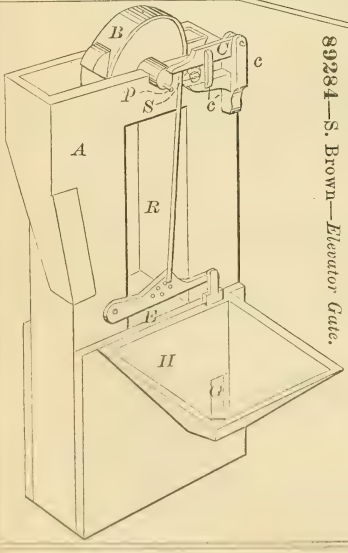

**89283**—K. Brown—*Nut Lock.*



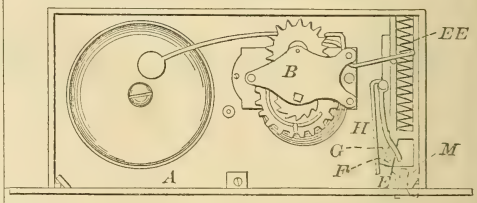

**89287**—W. H. Bustin—*Hames.*



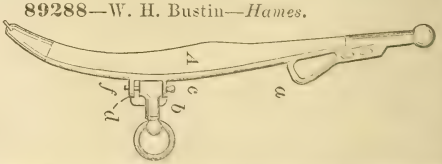

**89284**—S. Brown—*Elevator Gate.*




**89286**—I. N. Buck—*Burglar Alarm.*

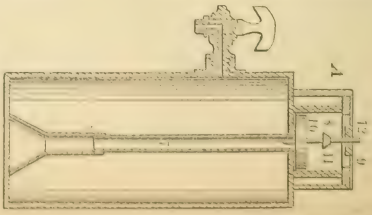



**89288**—W. H. Bustin—*Hames.*

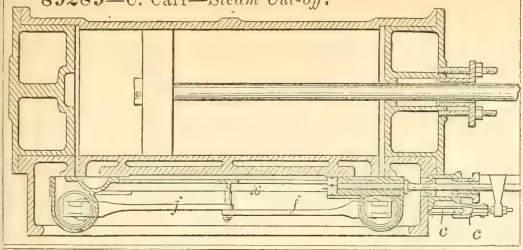



**89290**—C. Chabot—*Spinning Machine.*

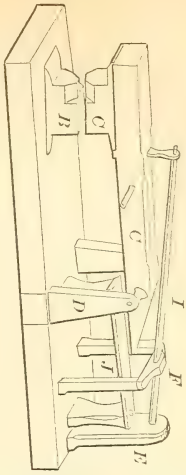
**89291**—J. C. Cochrane—*Steam Generator.*



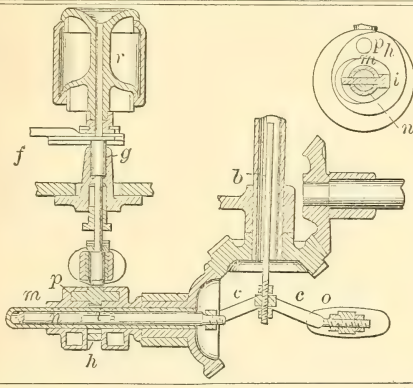
**89289**—C. Carr—*Steam Cut-off.*



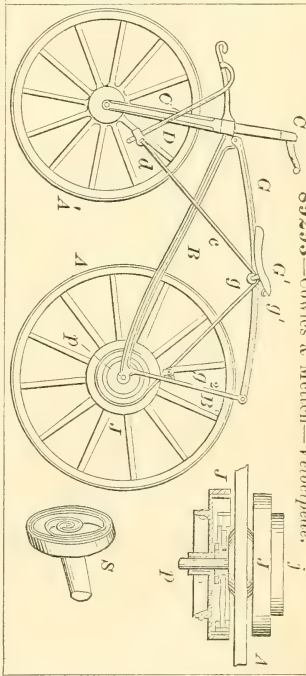
**89292**—J. Collins—*Spring Balance Hammer.*



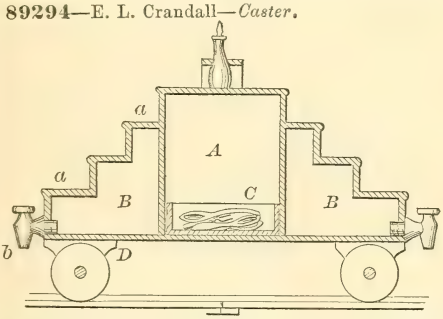
**89269**—W. A. Fenn—*Oil Can.*



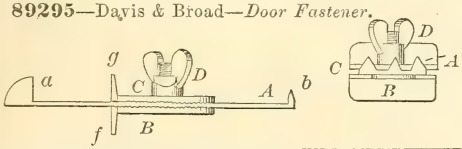
**89293**—Cowles & Metton—*Velocipede.*



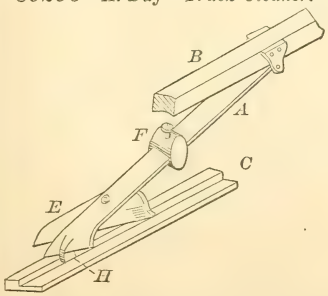
**89294**—E. L. Crandall—*Caster.*



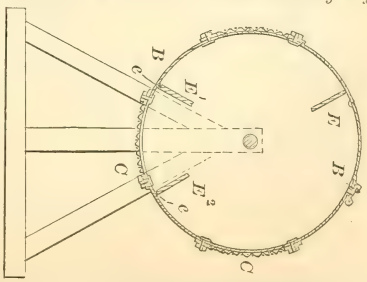
**89295**—Davis & Broad—*Door Fastener.*



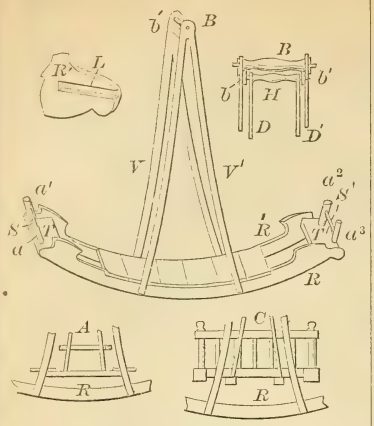
**89296**—A. Day—*Track Cleaner.*



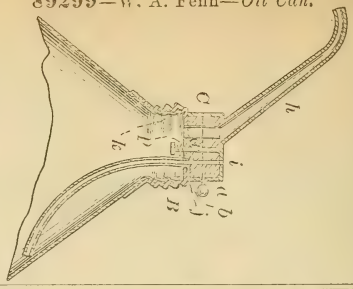
**89298**—W. H. Elton—*For Cleaning Coffee.*



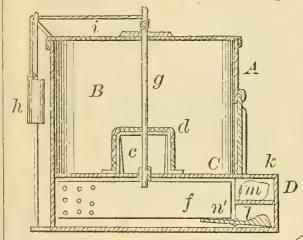
**89297**—C. M. Dillon—*Swing.*



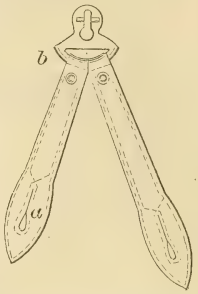

**89299**—W. A. Fenn—*Oil Can.*



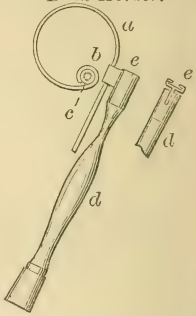

**89300**—W. A. Fenn—*Trap.*



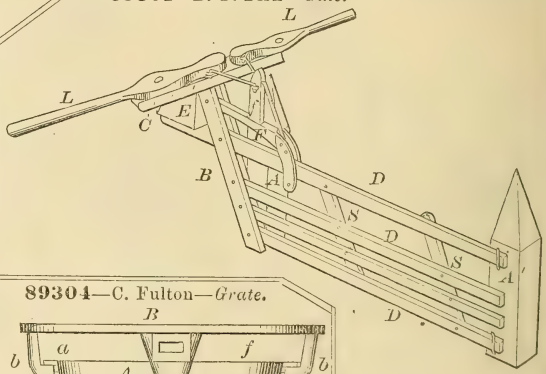

**89302**—T. J. Flagg—*Suspender End.*



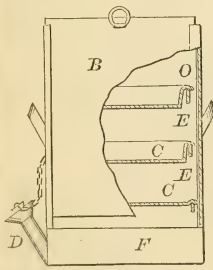

**89307**—W. D. Gridley—*Book Holder.*



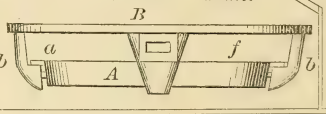

**89301**—B. F. Fisk—*Gate.*



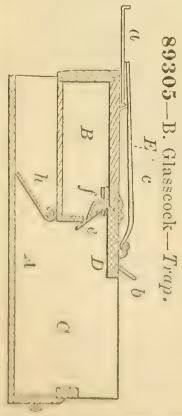

**89303**—I. Forman—*Culinary Steamer.*



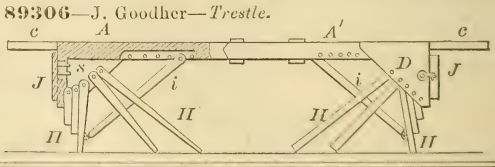

**89304**—C. Fulton—*Grate.*



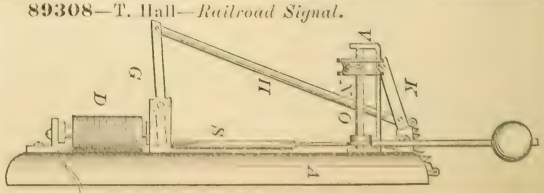

**89305**—B. Glassock—*Trap.*



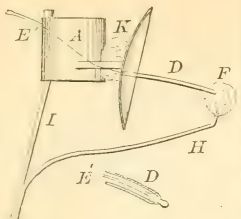

**89306**—J. Goodher—*Trestle.*



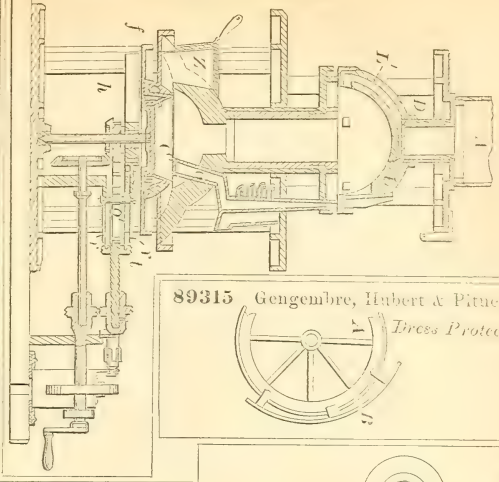

**89308**—T. Hall—*Railroad Signal.*



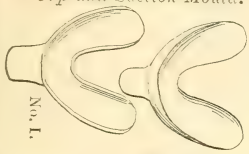
**89309**—G. Haneline—*Torch.*




**89310**—J. Heatley—*Furnace.*



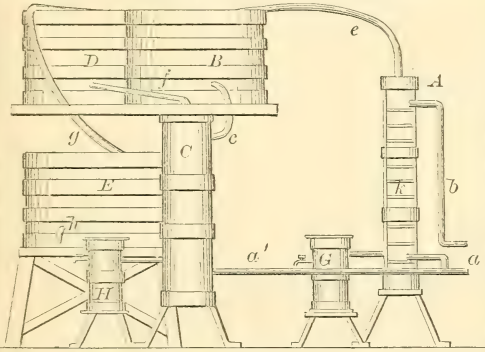
**89316**—G. H. Hurd—*Dental Cup and Suction Mould.*



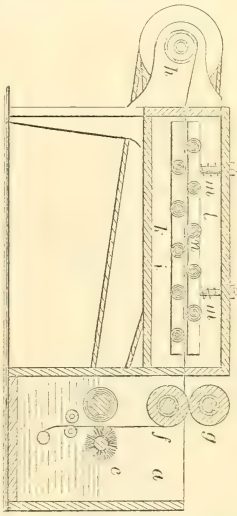

**89315** Gengembre, Hubert & Pitney—*Press Protector.*

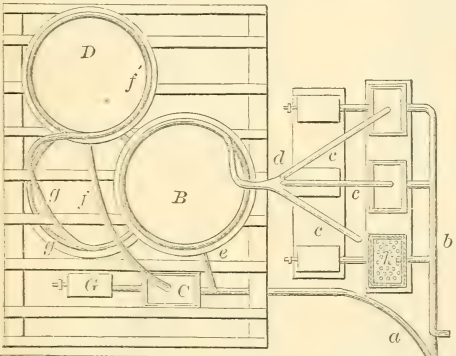


**89318**—C. B. Jarvis—*For Distilling Spirits.*

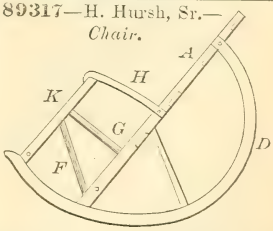



**89313**—C. E. L. Holmes—*For Scouring and Drying Sheet Metal.*

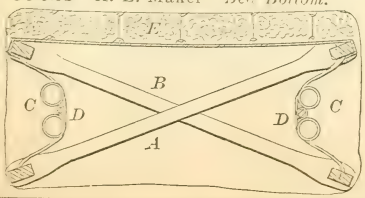


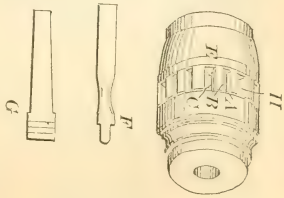

**89317**—H. Hursh, Sr.—*Chair.*



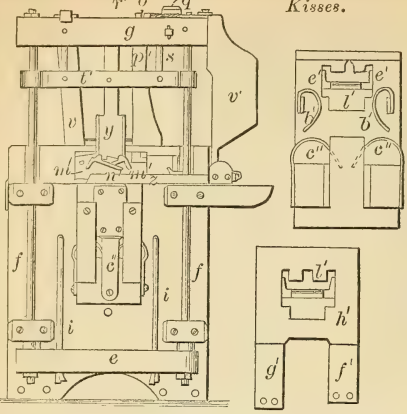

**89321**—H. E. Maker—*Bed Bottom.*



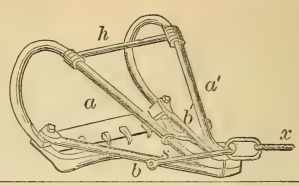

**89322**—J. Maris—*Hub and Spoke.*



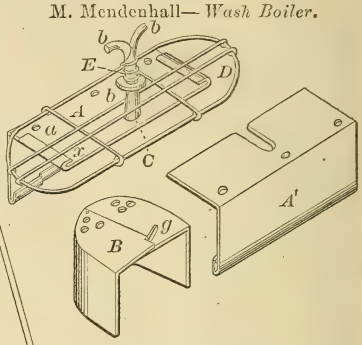
**89319**—Laramie & Scott—*For Wrapping Sugar Kisses.*



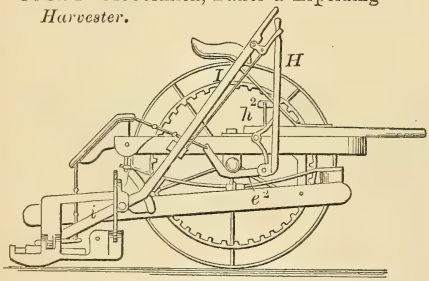

**89323**—T. F. Mayhew—*Oyster Dredge.*



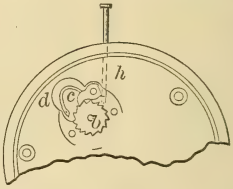

**89325**—McMullin & I. N. & M. Mendenhall—*Wash Boiler.*

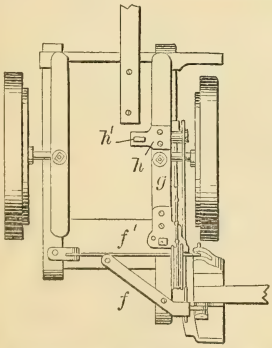



**89324**—McCormick, Baker & Erpelding—*Harvester.*

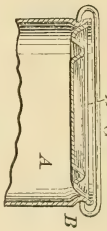



**89328**—C. S. Moseley—*Watch.*

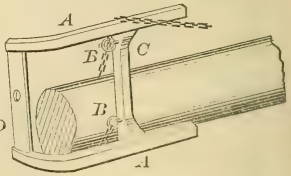


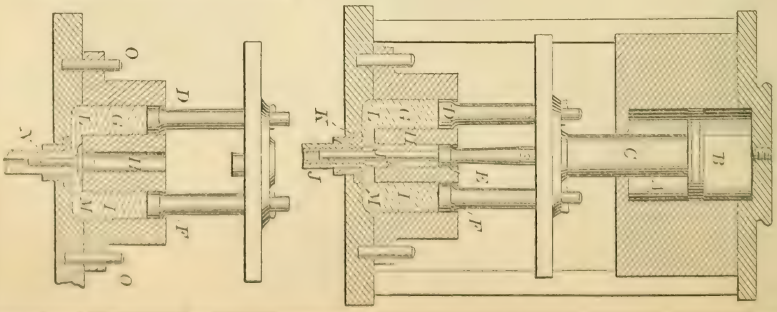

**89327**—H. Mitchell—*Fruit Can.*



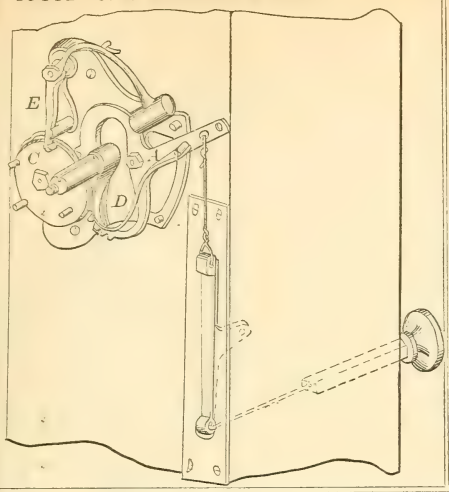

**89332**—A. Olmsted—*Log Boat.*



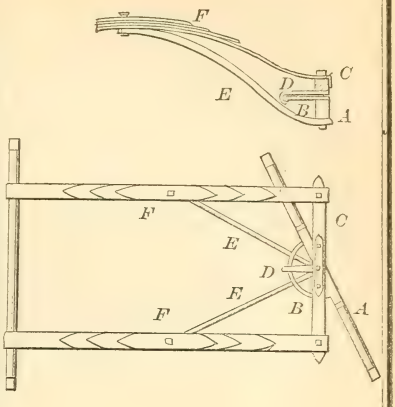

**89326**—H. Merric—*For Making Tin-Lined Lead Pipe.*



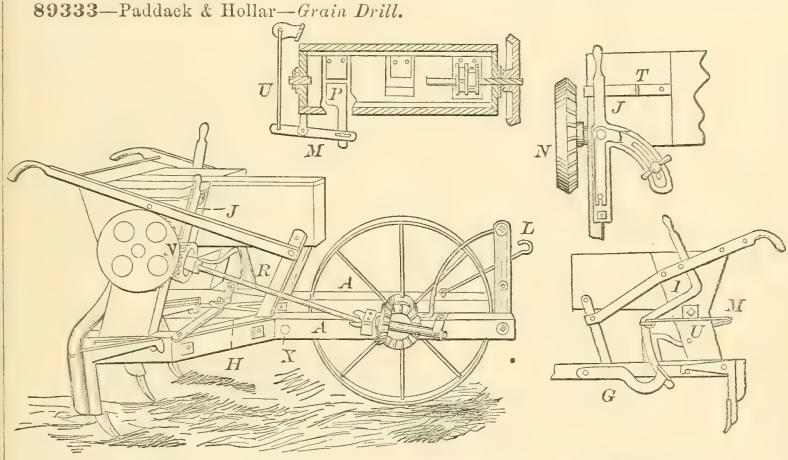
**89331**—O. A. North—*Door Bell.*



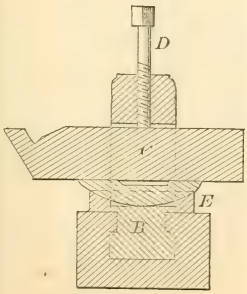

**89336**—L. G. Peel—*Buggy Coupling.*



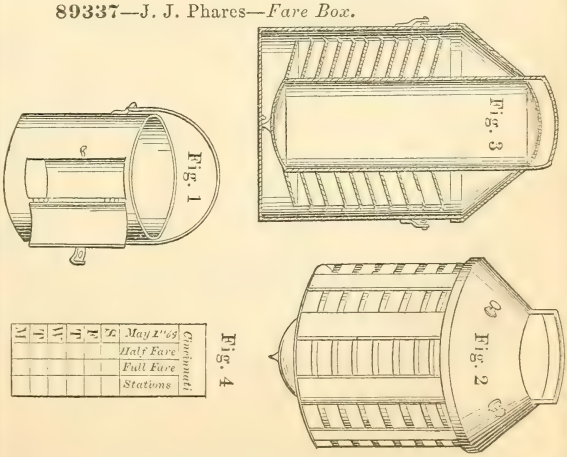

**89333**—Paddack & Hollar—*Grain Drill.*



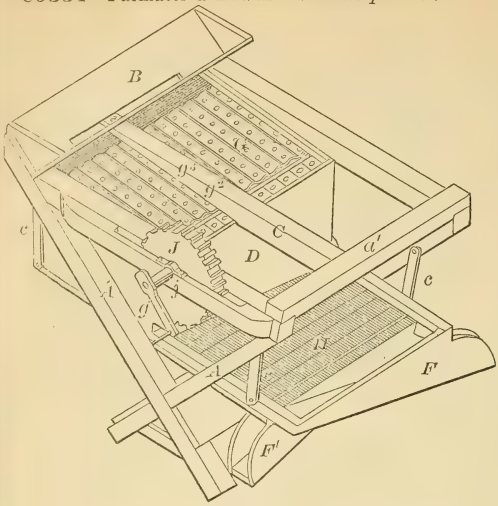

**89335**—L. J. Parsons—*Tool Adjuster.*

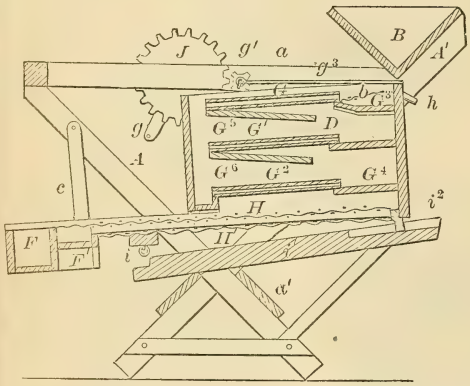



**89337**—J. J. Phares—*Fare Box.*

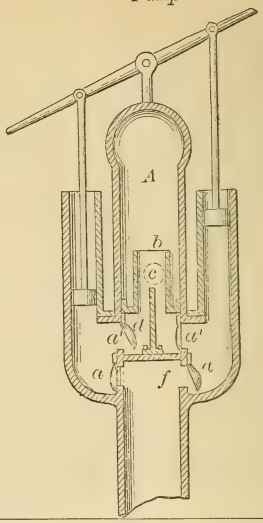


**89334**—Parmater & Bowen—*Grain Separator.*

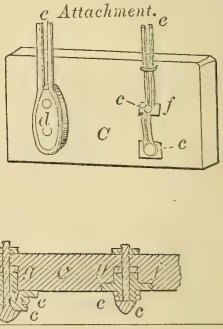


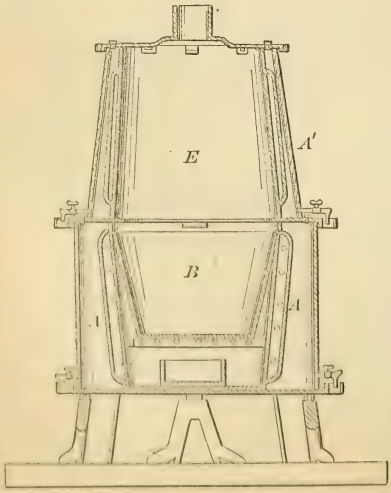

**89338**—Pomroy & Walter—*Pump.*



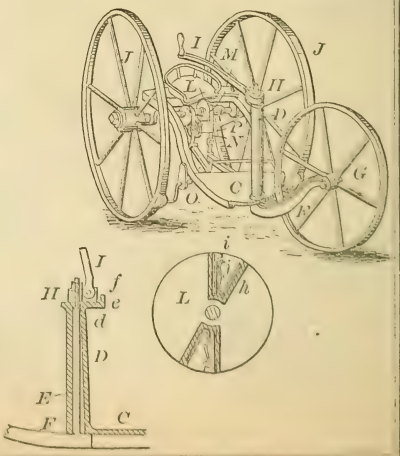

**89339**—Porter, Leach & Hutchins—*Chain Plate Attachment.*



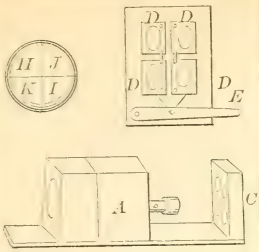

**89340**—A. J. Pyle—*Stove.*



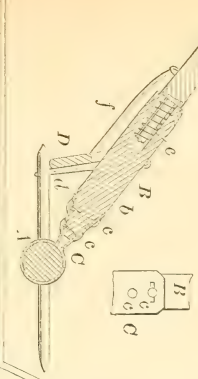

**89341**—J. Rankin—*Velocipede.*



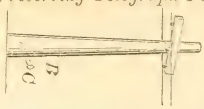
89342—D. W. S. Rawson—*Photographic Apparatus.*



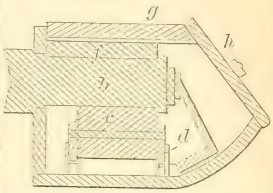

89343—H. Rees—*Horse Rake.*



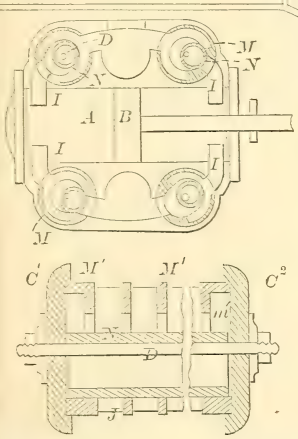

89345—L. S. Robbins—*Preserving Telegraph Poles.*



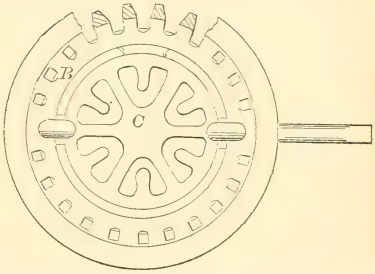

89349—H. B. Rowley—*Journal Box.*



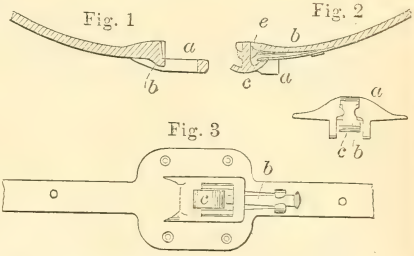

89344—A. K. Rider—*Pump Valve.*



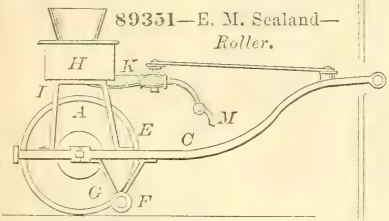

89347—F. H. Root—*Stove Grate.*



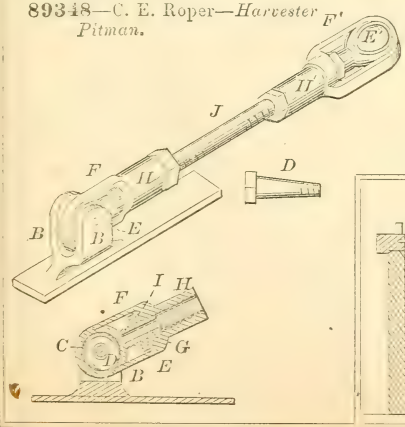

89346—W. A. Robinson—*Horse Collar Fastener.*



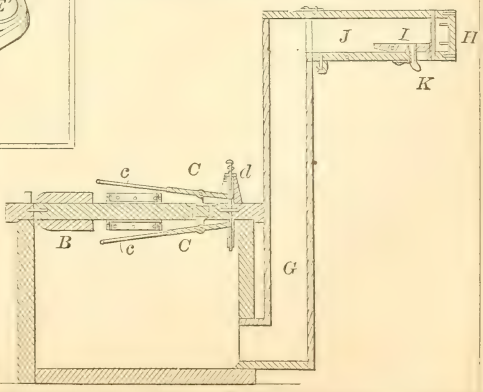

89351—E. M. Sealand—*Roller.*



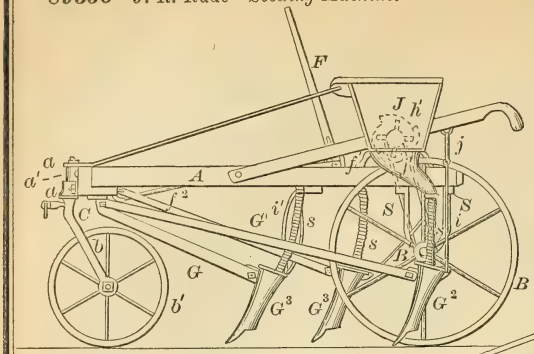

89348—C. E. Roper—*Harvester Pitman.*



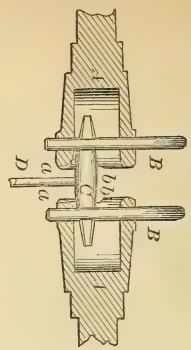

89352—T. Silliman—*Trap.*

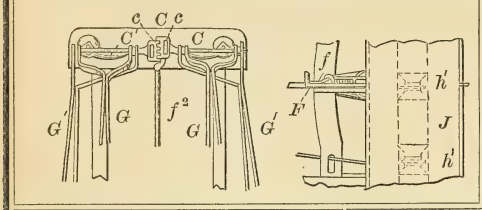


**89350**—J. R. Rude—*Seeding Machine.*

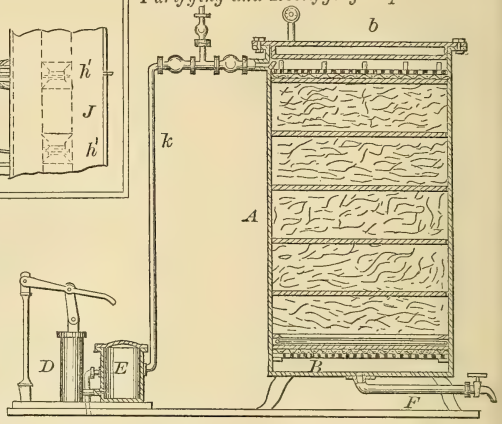



**89355**—Sturges & Young—*Car Coupling.*



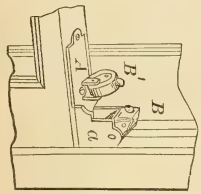




**89353**—T. R. Sinclaire—*For Purifying and Rectifying Liquids.*

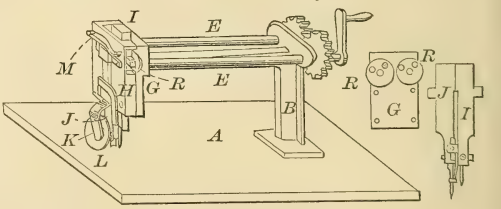



**89354**—Spencer & Cutting—*Pen Holder.*

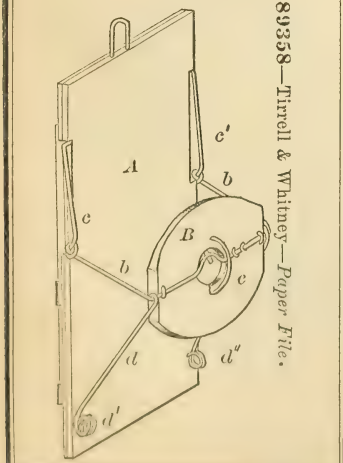
**89356**—G. A. Sturges—*Sash Holder.*



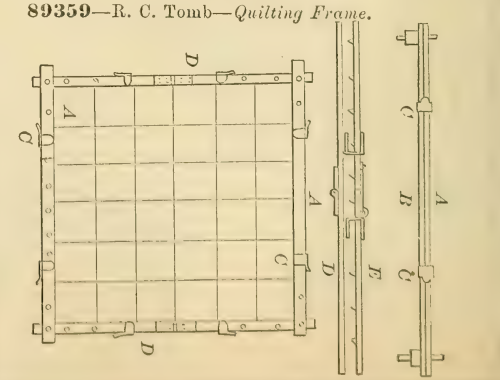

**89357**—H. L. Swartwout—*Sewing Machine.*




**89358**—Tirrell & Whitney—*Paper File.*

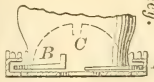



**89359**—R. C. Tomb—*Quilting Frame.*

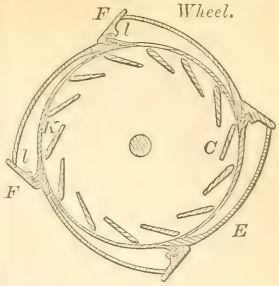


**89360**—J. & W. Toothill—*Ornamenting Sheet Metal Ware.*

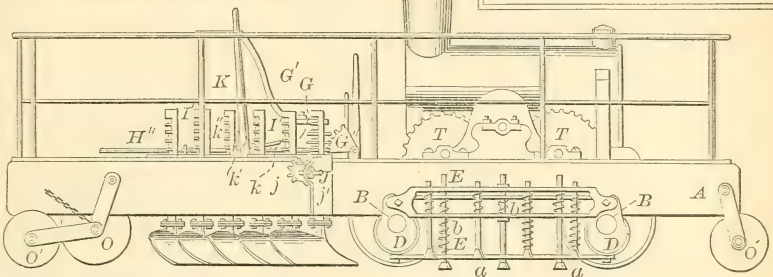
**89367**—C. H. Wolcott—*Lamp Chimney.*

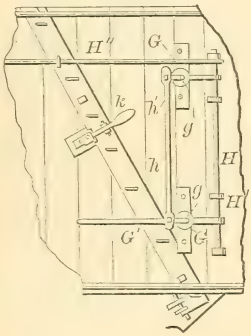


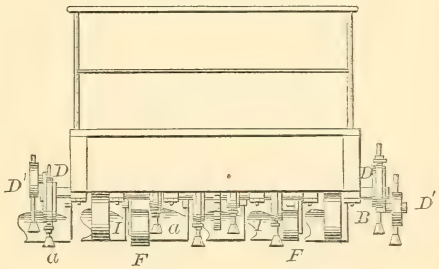

**89363**—A. Warren—*Water Wheel.*



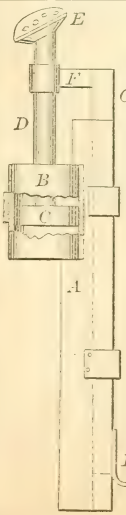

**89361**—Townley & Friedrich—*Plow.*



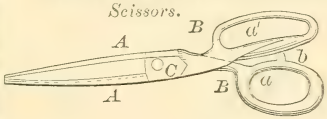



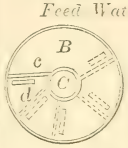

**89362**—H. Tyler—*Sprinkler.*

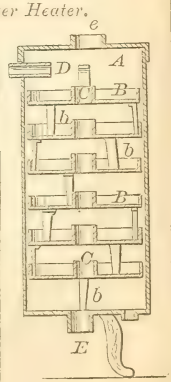



**89364**—H. Wendt—*Shears and Scissors.*

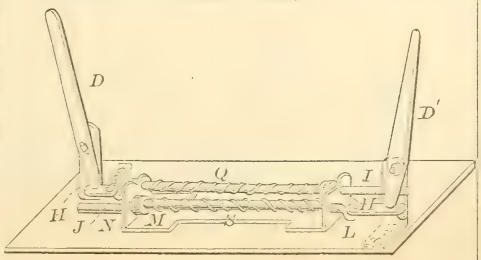



**89366**—D. Wineland—*Feed Water Heater.*

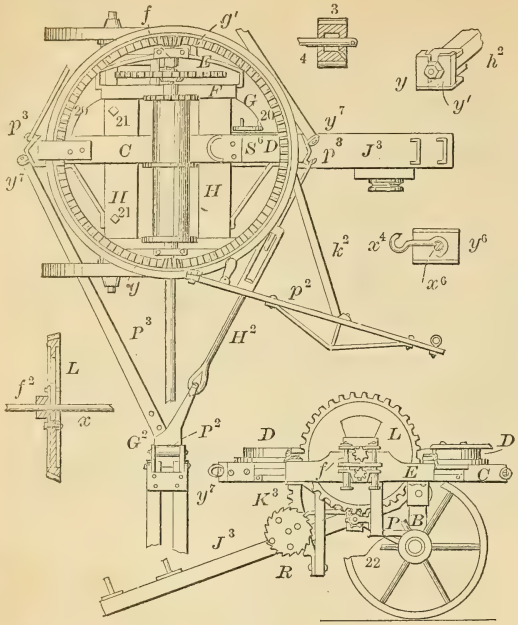


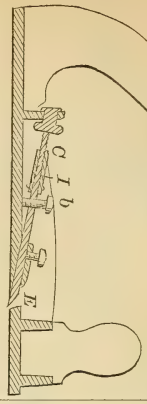

**89365**—J. F. Wicks—*Loom.*



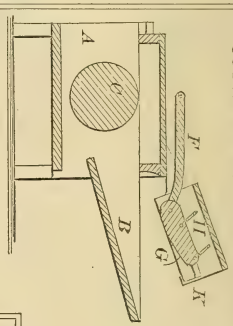
**89368**—D. Woodbury—*Horse Power.*



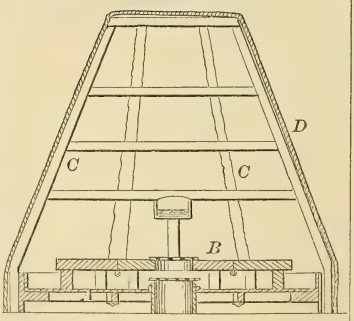
**89369**—S. W. Woodward—*Plane.*



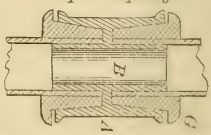
**89372**—A. Zwiebel—*Band Cutter.*



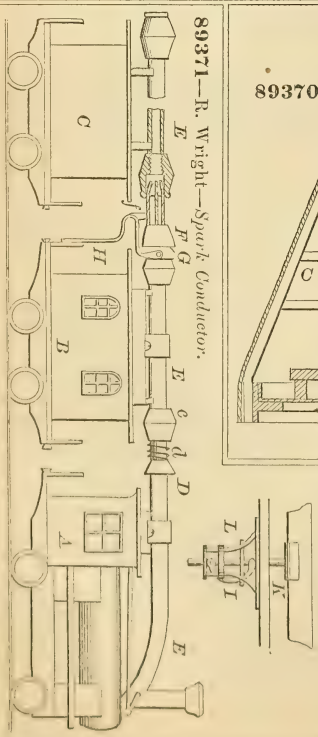
**89370**—J. R. Worster—*Bath.*



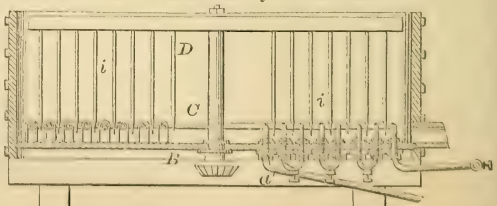
**89373**—L. Abbott—*Pipe Coupling.*



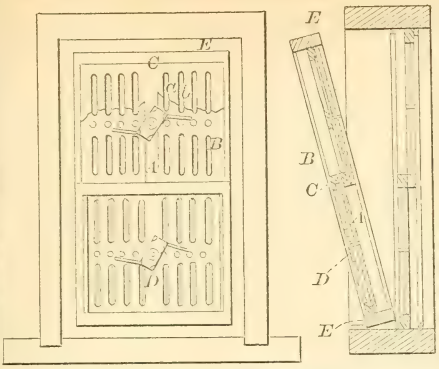
**89371**—R. Wright—*Spark Conductor.*



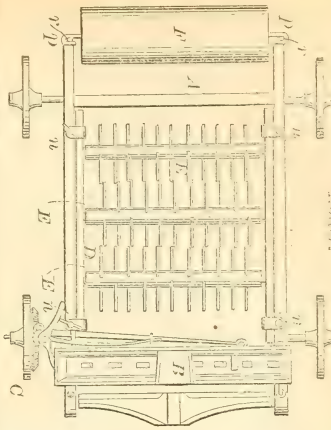
**89374**—M. J. Allen—*Coil for Mash Tubs.*



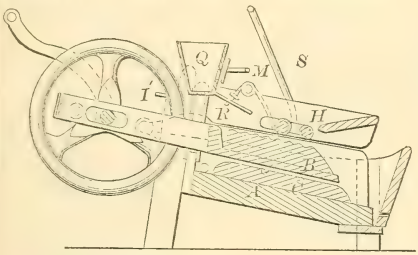
89375—C. H Anders—*Sash Blind.*



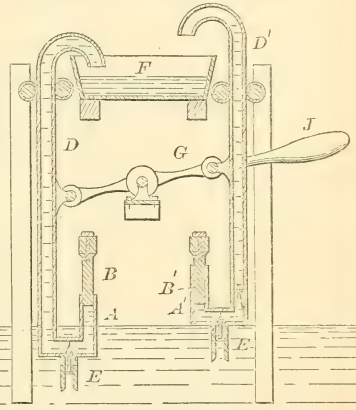

89376—J. Anderson—*Sender, Hacror and Feller.*



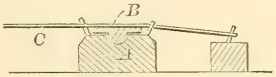

89377—J. M. Austin—*Washing Machine.*



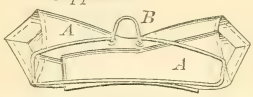

89378—S. Belden—*Pump.*



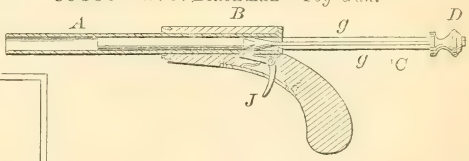

89381—C. W. Brewer—*Piano Bridge.*



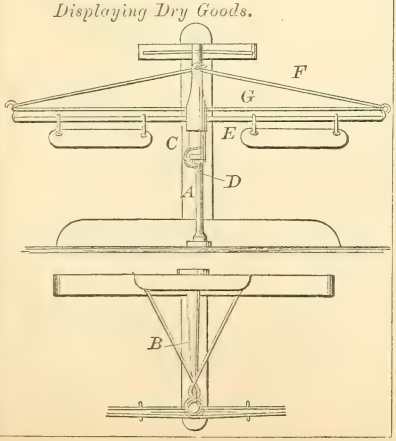

89382—S. Bruhl—*Neck Tie Supporter.*



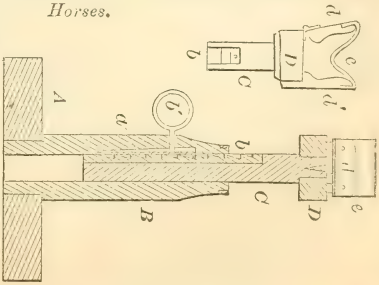

89380—W. J. Blackman—*Toy Gun.*



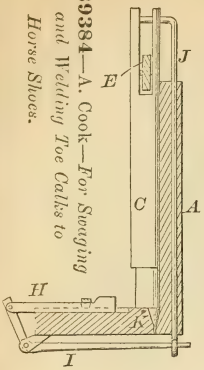

89383—J. D. Chambers—*For Displaying Dry Goods.*



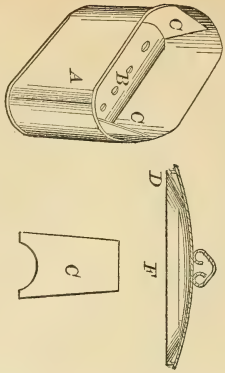

89379—S. S. Blackburn—*Rest for Shoeing Horses.*



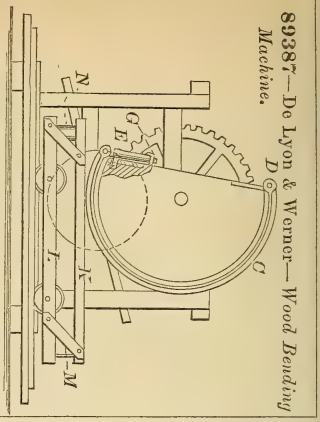
**89384**—A. Cook—*For Swaging and Welding Toe Calks to Horse Shoes.*



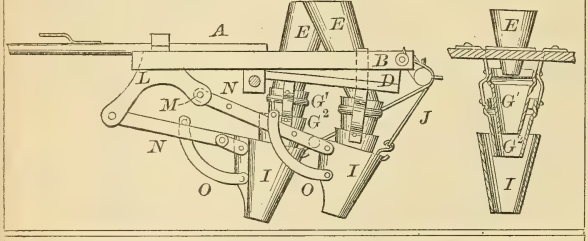

**89385**—A. Day—*Wash Boiler*



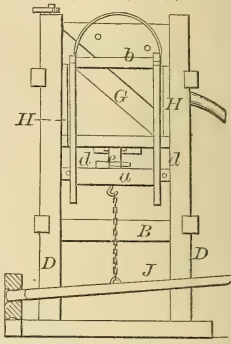

**89387**—De Lyon & Werner—*Wood Bending Machine.*



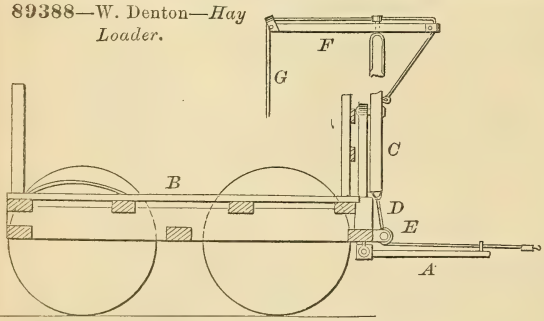

**89386**—Dean & Baker—*Grain Drill.*



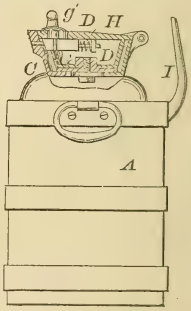

**89389**—E. Douty—*Straw Cutter.*



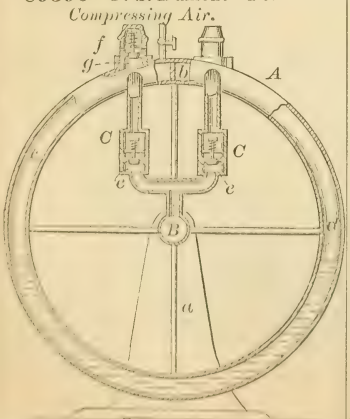

**89388**—W. Denton—*Hay Loader.*



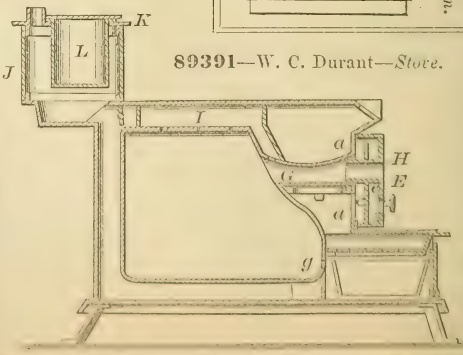

**89392**—S. J. Dwyer—*Milk Can.*



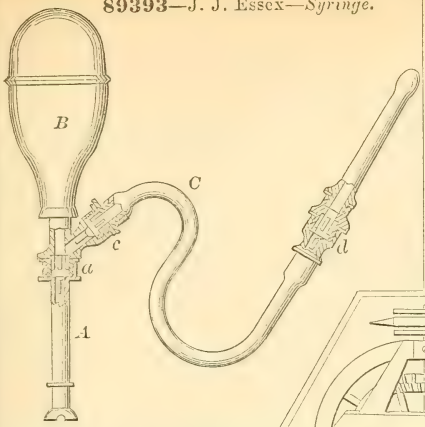

**89390**—F. S. Dumont—*For Compressing Air.*



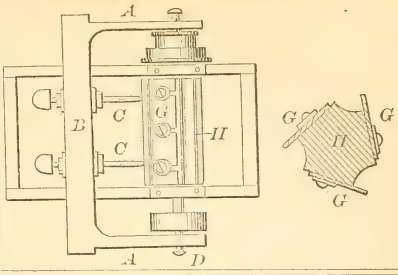

**89391**—W. C. Durant—*Stove.*



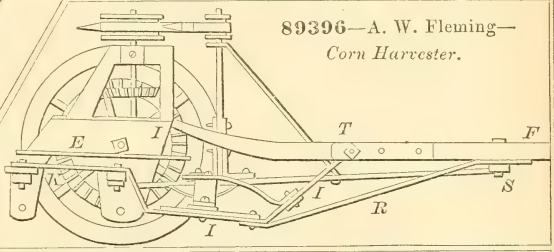
**89393**—J. J. Essex—*Syringe.*



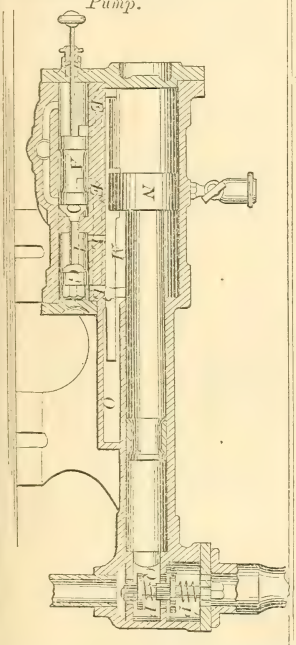

**89394**—A. Evans—*Gauge.*



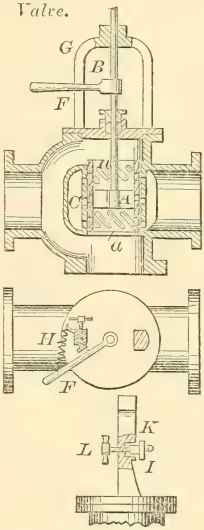

**89396**—A. W. Fleming—*Corn Harvester.*



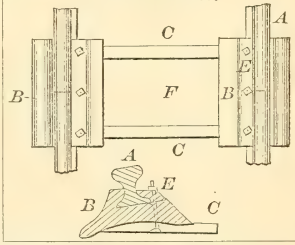

**89398**—W. W. Gilbert—*Pump.*



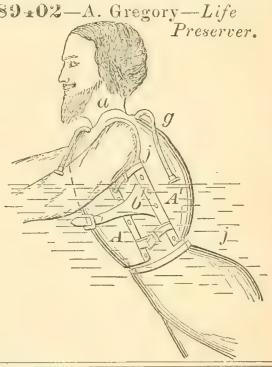

**89399**—W. W. Gilbert—*Valve.*



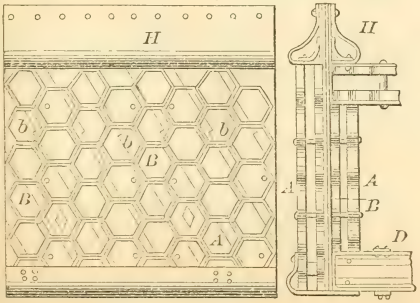

**89397**—T. F. Fouts—*Railroad Chair and Tie.*



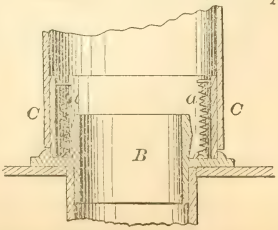

**89402**—A. Gregory—*Life Preserver.*



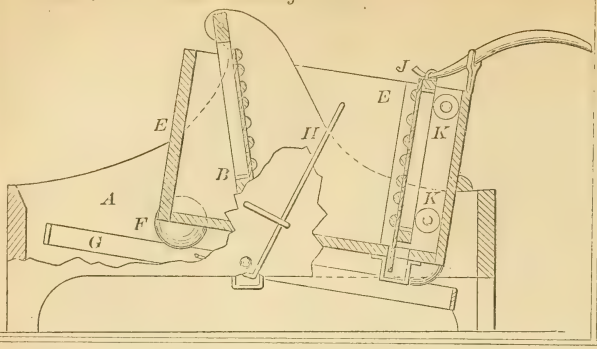

**89400**—J. Gill—*Bridge Beam and Girder.*



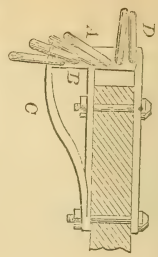

**89403**—J. Hall—*Stove Pipe.*



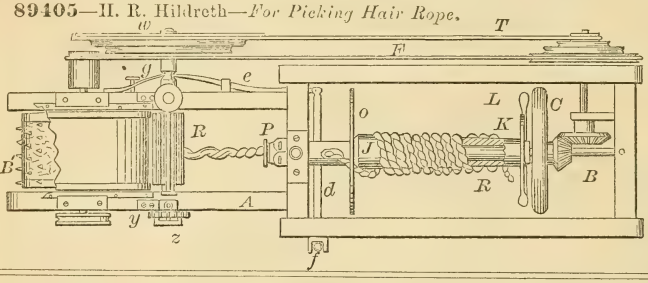
**89401**—D. Graves—*Washing Machine.*

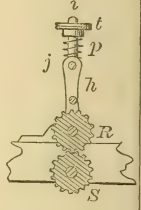



**89407**—G. W. Holton—*Clevis.*

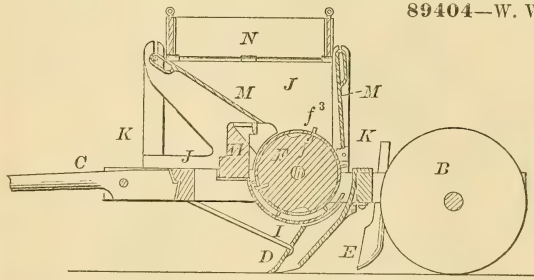


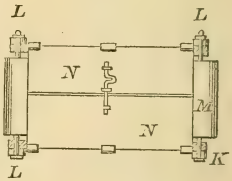

**89405**—H. R. Hildreth—*For Picking Hair Rope.*



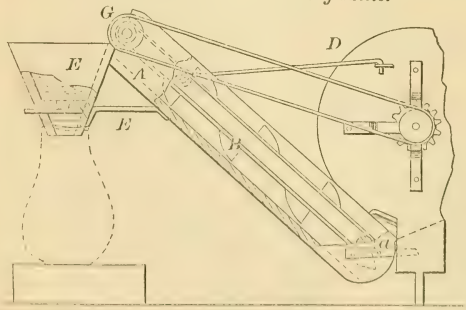




**89404**—W. W. Haupt—*Seed Planter.*

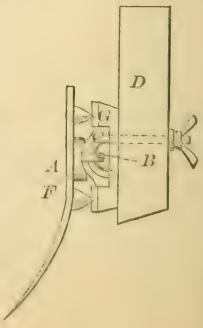


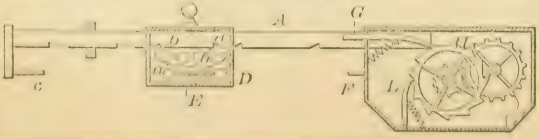

**89406**—N. Hinman—*For Fanning Mills.*



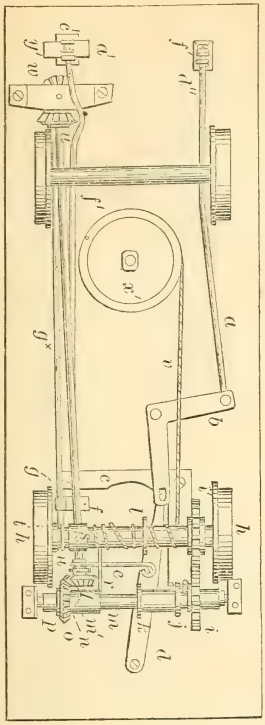

**89409**—B. S. Hyers—*Cultivator.*

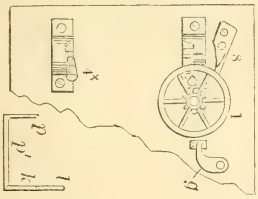



**89408**—W. A. Hough—*Billiard Register.*

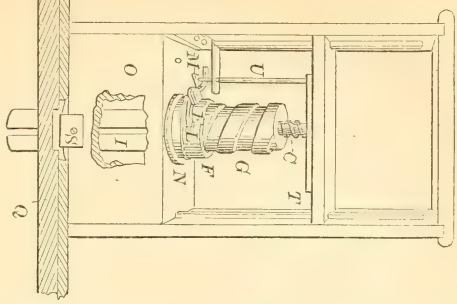


**89410**—C. L. Irving—*Car Brake and Starter.*

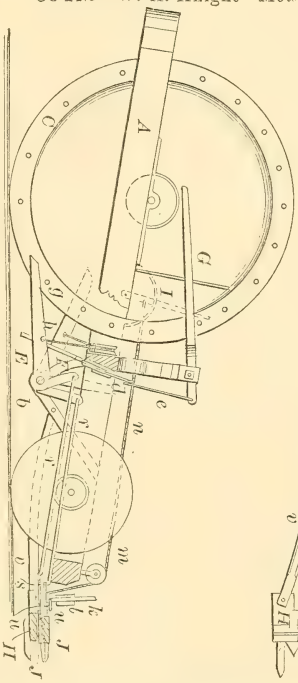


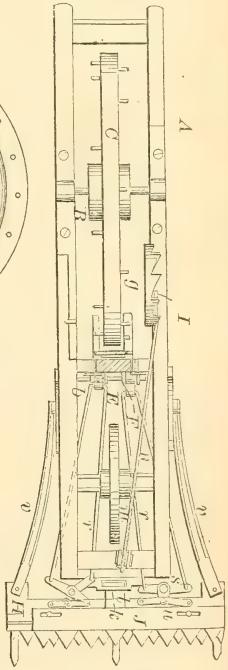


**89411**—J. P. Kintner—*Screw.*

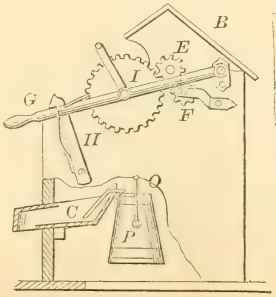


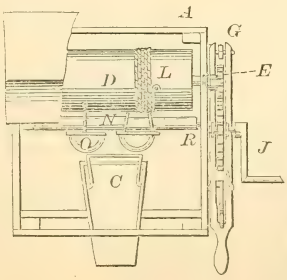
**89412**—W. H. Knight—*Mowing Machine.*

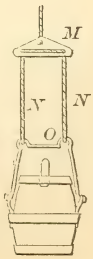




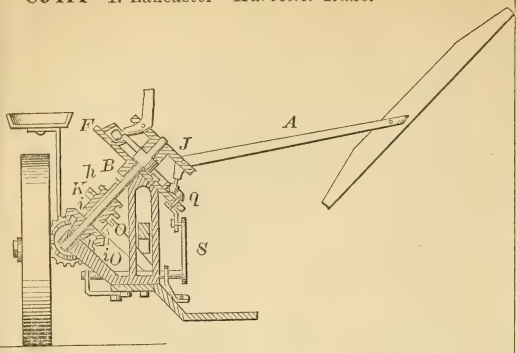
**89413**—L. M. Knowles—*Water Elevator.*



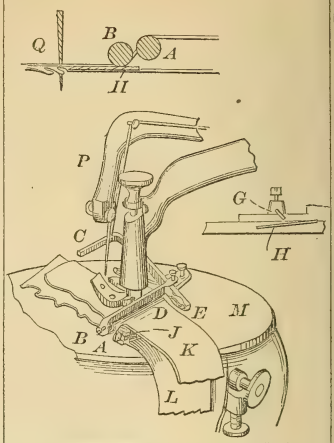




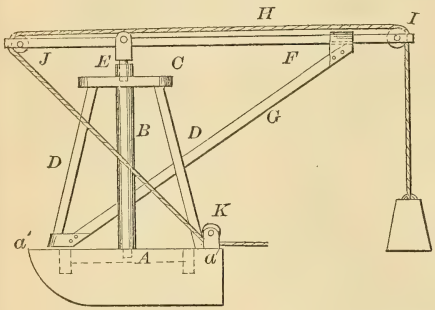
**89414**—I. Lancaster—*Harvester Rake.*



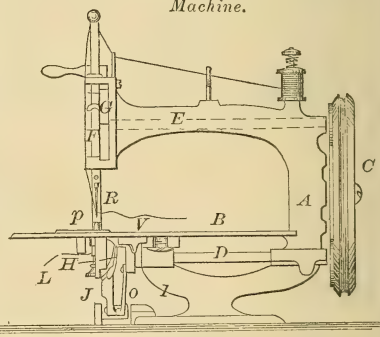

**89415**—W. W. Lowerree—*For Ruffling.*



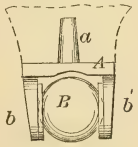

**89416**—N. Matlick—*Derrick.*

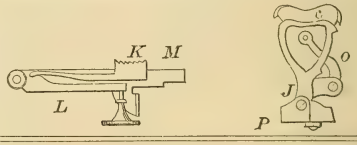



**89417**—T. J. McArthur—*Sewing Machine.*

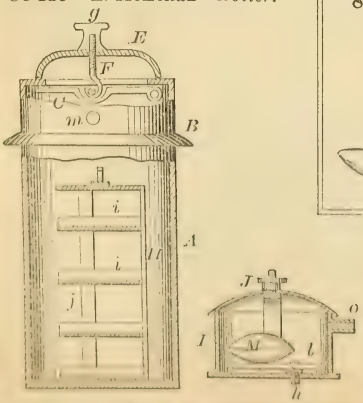



**89418**—W. C. McGill—*Caster.*

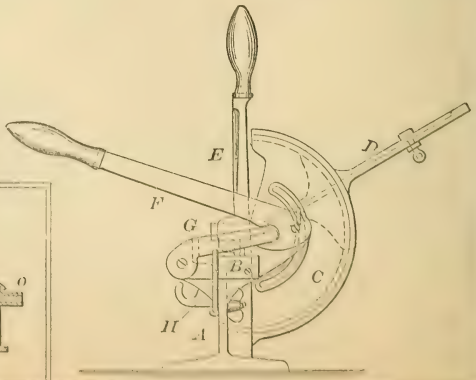


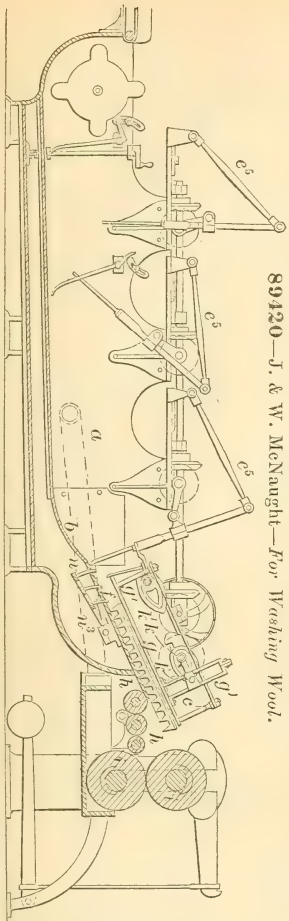

**89419**—L. McLellan—*Boiler.*



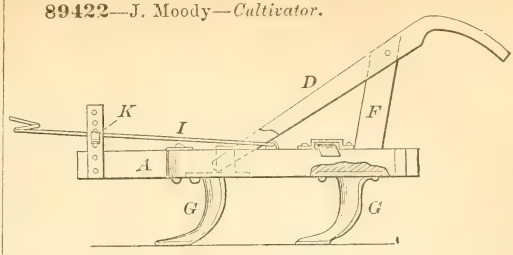

**89421**—T. H. Mead—*For Mitering Printers' Rules.*



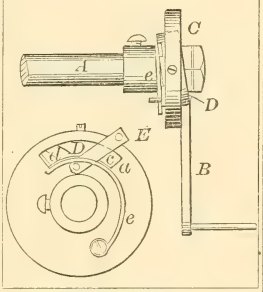
**89420**—J. & W. McNaught—*For Washing Wool.*



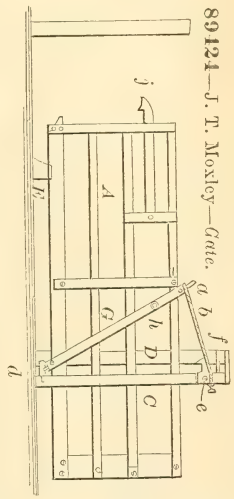
**89422**—J. Moody—*Cultivator.*



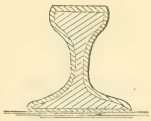

**89423**—C. T. Moore—*Crank.*



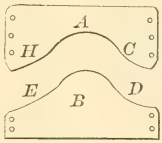

**89424**—J. T. Moxley—*Gate.*



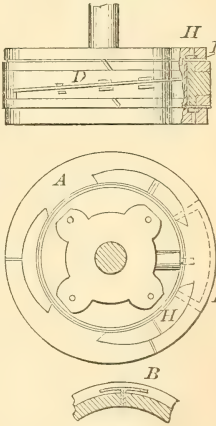

**89425**—J. Myers, Jr.—*Railroad Bar.*



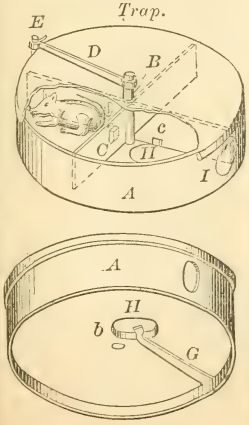
**89426**—E. Norton—*Store Pipe Blank.*



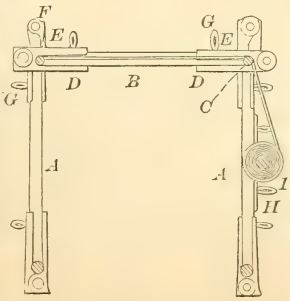

**89428**—W. Ord—*Piston.*



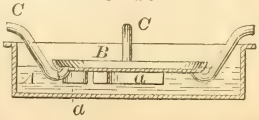

**89429**—D. J. Owen—*Trap.*



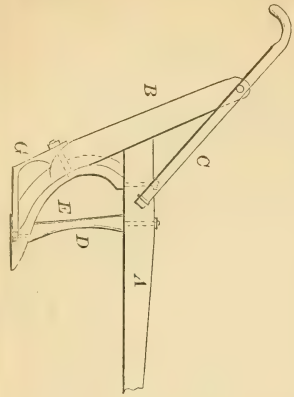

**89427**—J. Odell—*Quilting Frame.*



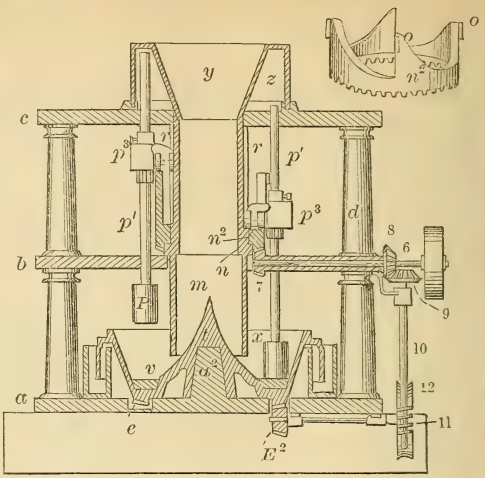

**89431**—Pratt & Seimel—*Soldering Apparatus.*



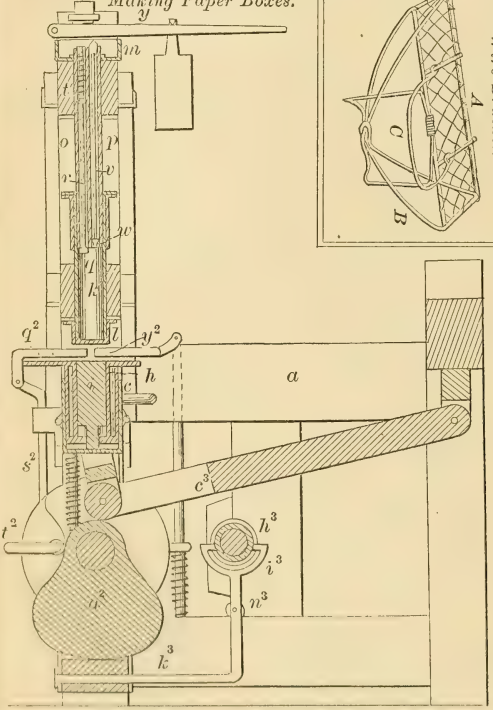
**89432**—J. B. Pullman—*Plow.*




**89434**—J. Repetti—*Quartz Crusher.*



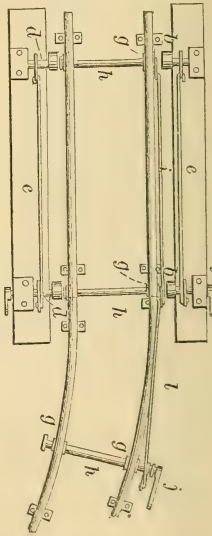

**89433**—B. F. Quimby—*For Making Paper Boxes.*




**89436**—W. W. Russell—*Wire Bracket.*

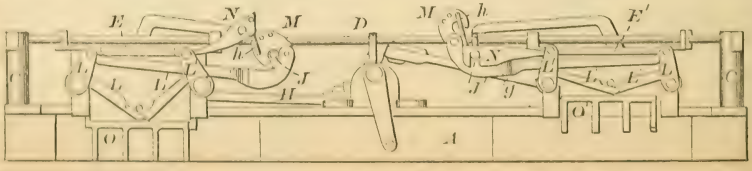



**89437**—L. Savage—*For Transferring Freight.*

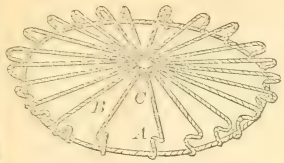



**89438**—W. Sellers—*Blind Slat Fastener.*

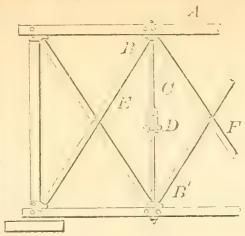
**89435**—P. Roberts—*Propelling Apparatus.*

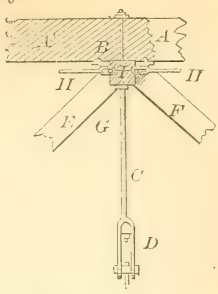


**89440**—D. Sherwood—*Dish Stand.*




**89442**—F. H. Smith—*Bridge.*




**89441**—C. W. Siemens—*Metallurgical Process and Furnace.*

Fig. 10

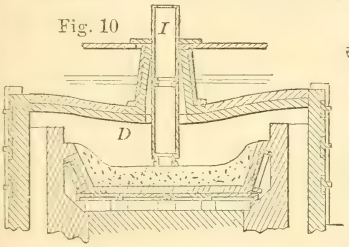



Fig. 11

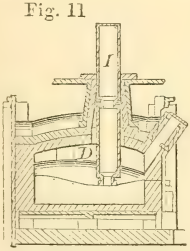
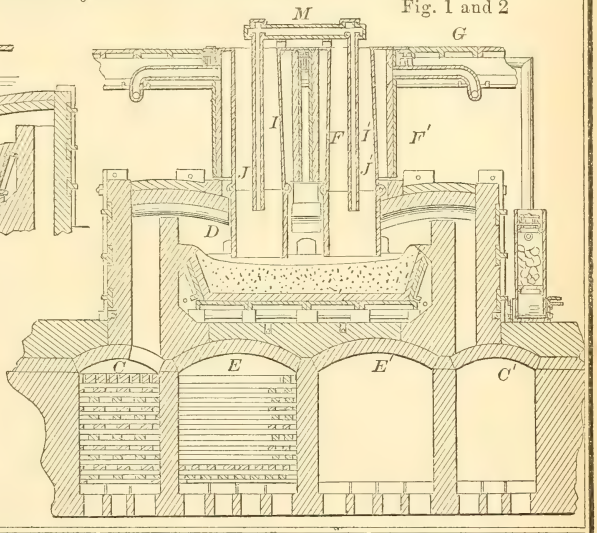
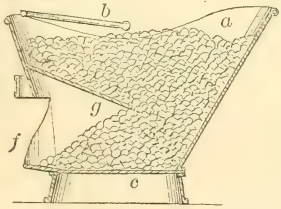


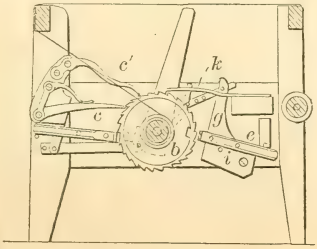

Fig. 1 and 2



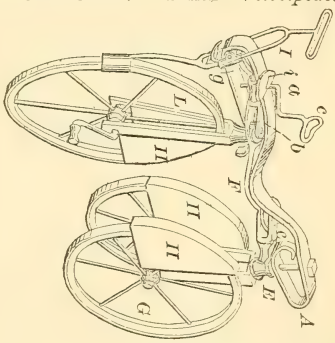

**89444**—J. G. Somes—*Coal Hod.*



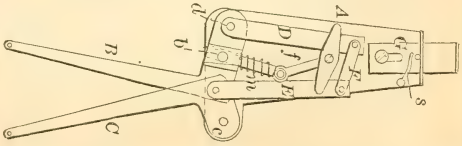

**89445**—J. Sparks—*Loom.*



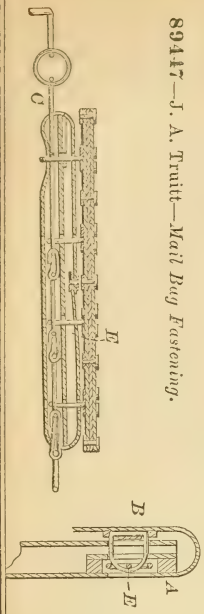

**89443**—W. H. Smith—*Velocipede.*



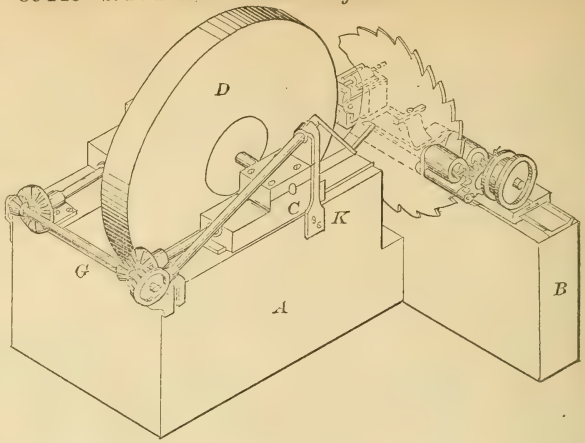

**89446**—J. Thomas—*For Embroidering.*



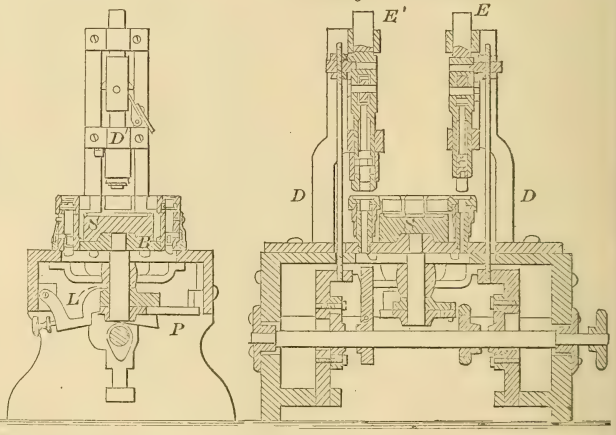
**89447**—J. A. Truitt—*Mail Bag Fastening.*




**89448**—S. D. Tucker—*For Grinding Saws.*

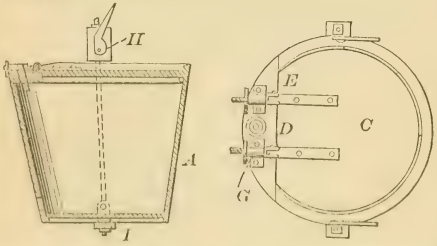



**89450**—W. W. Wade—*For Making Covered Buttons.*



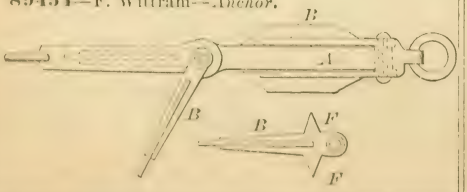

**89451**—A. Waldron—*Shoe Nail.*

**89449**—J. R. Van Marter—*Still.*

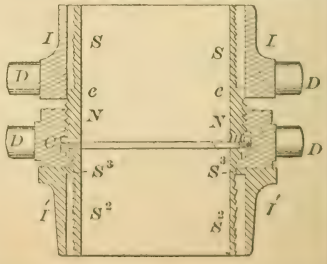



**89452**—L. Weed—*Ear Drop Suspender.*

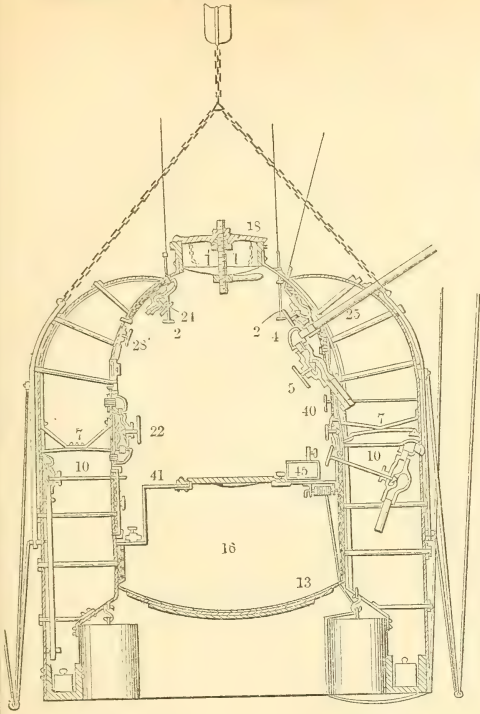
**89454**—F. Wittram—*Anchor.*

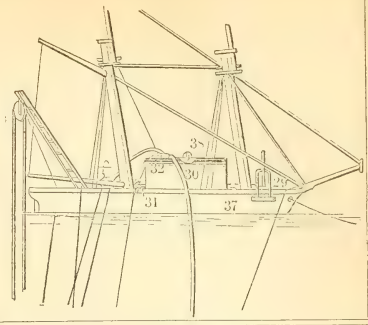



**89455**—A. F. Allen—*Hose Coupling.*

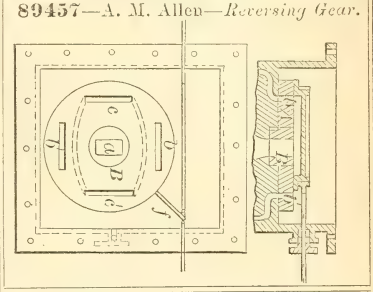


**89453**—J. A. Weisse—*Diving Bell.*

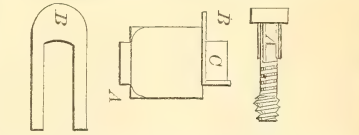




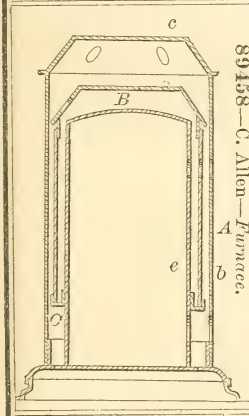
**89457**—A. M. Allen—*Reversing Gear.*



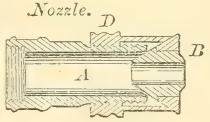
**89460**—W. E. Ball—*Nut Lock.*



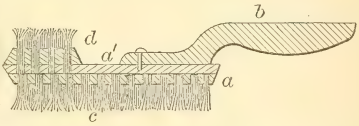
**89458**—C. Allen—*Furnace.*



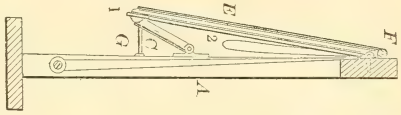
**89456**—A. F. Allen—*Nozzle.*



**89459**—C. L. W. Baker—*Brush.*

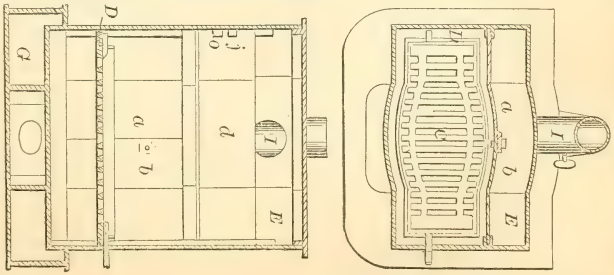


**89462**—H. A. Bowman—*Awning.*

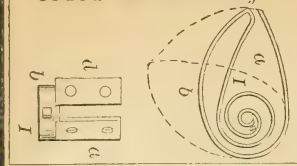


**89461**—G. W. Bishop—*Wrench.*

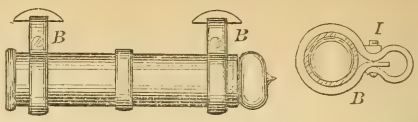
**89463**—T. Brockman—*Stove.*



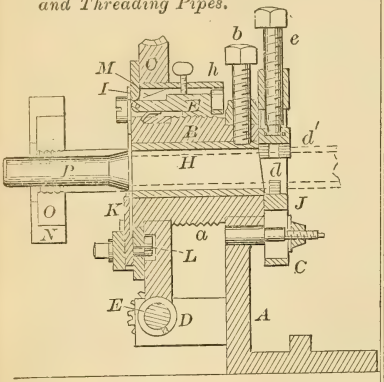
**89464**—M. Bush—*Hinge.*



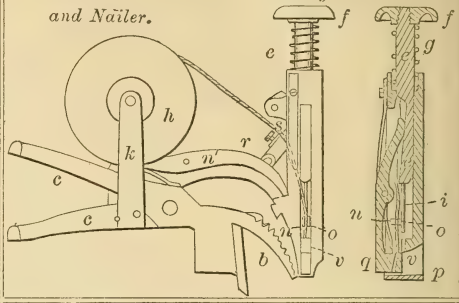
**89465**—Caldwell & Bugbee—*Whip Socket.*



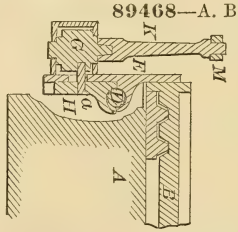
**89466**—W. D. Chase—*For Cutting and and Threading Pipes.*



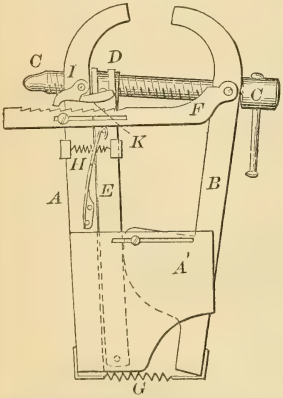
**89467**—F. O. Clafiin—*Lasting Pincers and and Nailer.*



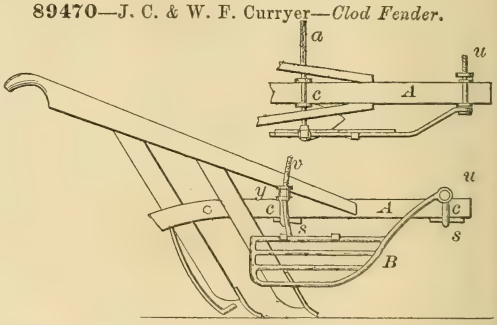
**89468**—A. B. Couch—*Lathe.*



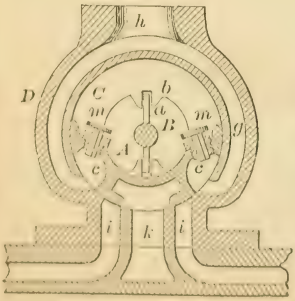
**89469**—Crawley & Baylies—*Vise.*



**89470**—J. C. & W. F. Curryer—*Clod Fender.*



**89471**—C. Dawson—*Valve.*



**89472**—F. De Bowens—*For Match Sticks.*

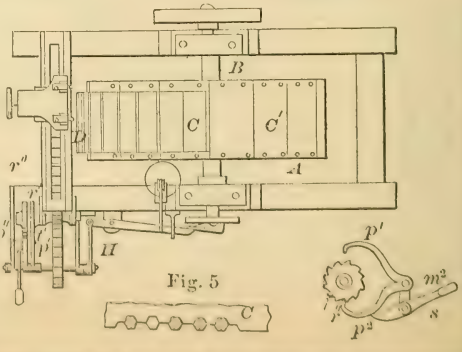
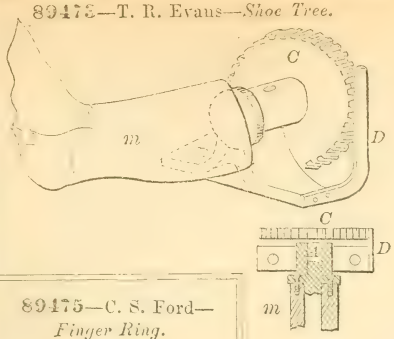
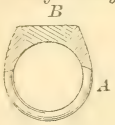


Fig. 5

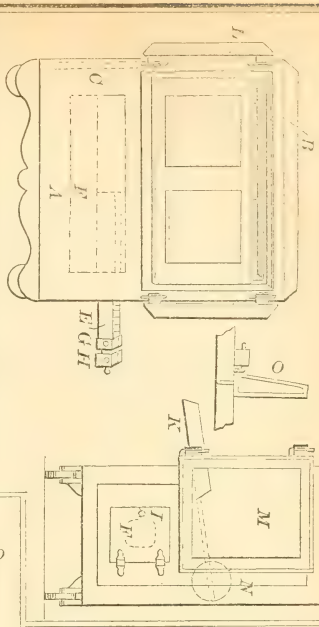
89473—T. R. Evans—*Shoe Tree.*



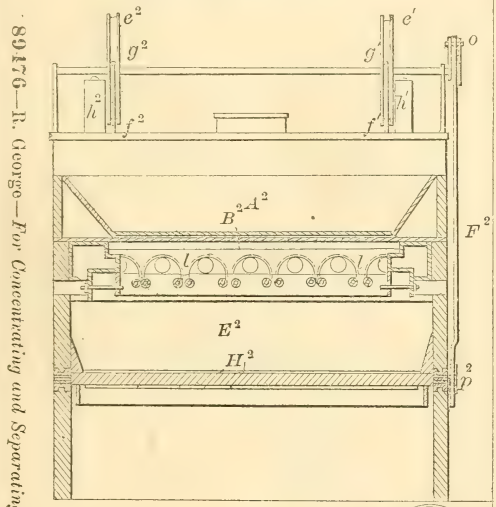

89475—C. S. Ford—*Finger Ring.*



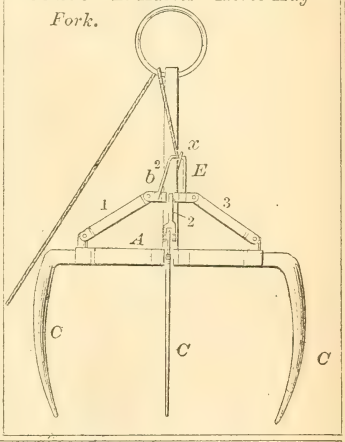

89474—D. Fitzgerald—*Safe.*

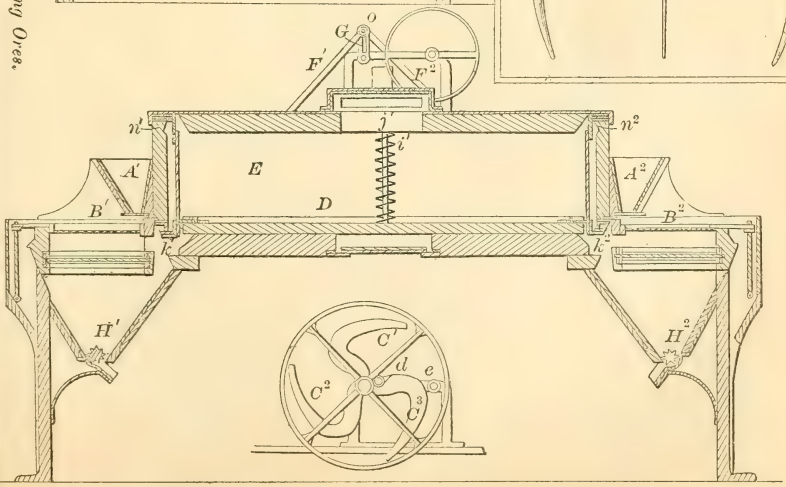



89476—R. George—*For Concentrating and Separating Ores.*

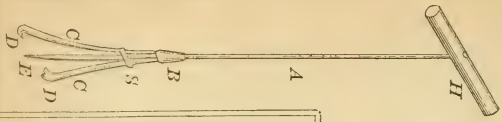



89478—E. Harter—*Horse Hay Fork.*

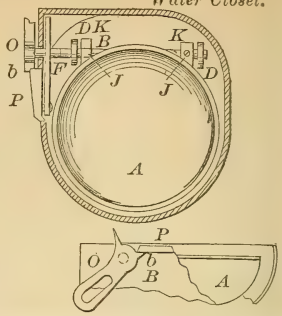


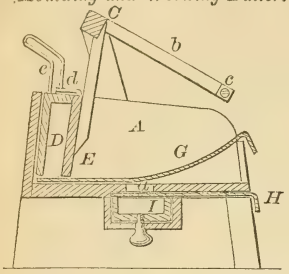
89477—G. L. Gibson, Jr.—*Cork Extractor.*



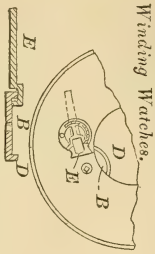

89479—J. Hayden, Jr.—*Water Closet.*



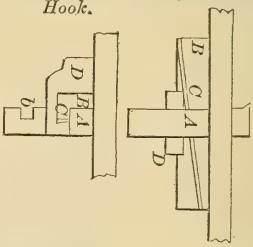

89480—J. C. Hervey—*For Moulding and Working Butter.*



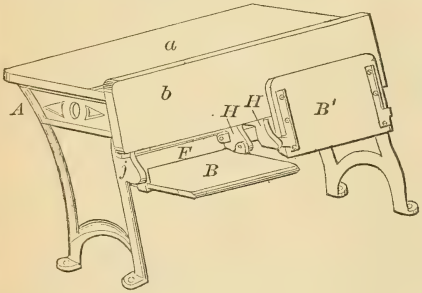

89482—E. H. Hull—*For Winding Watches.*



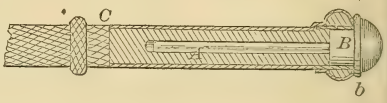

89483—J. Humphreys—*Bench Hook.*



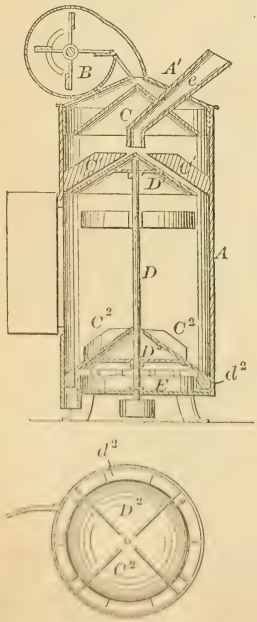

89484—A. Hutchinson—*Desk.*



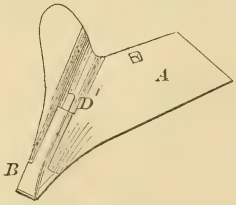

89487—G. King—*Whip.*



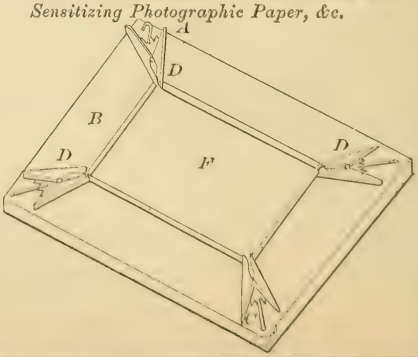

89485—P. Johnson—*Flour Cooler.*



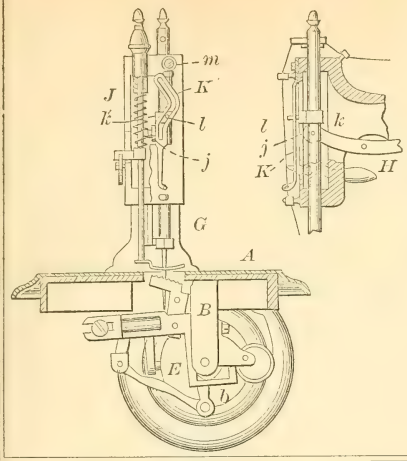

89486—C. B. Kerr—*Plow Point.*



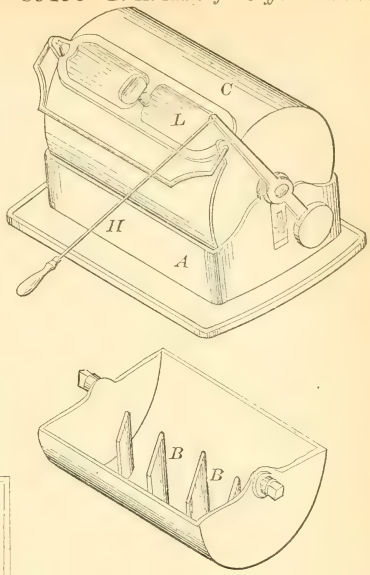

89488—W. S. Lukenbach—*For Flowing and Sensitizing Photographic Paper, &c.*



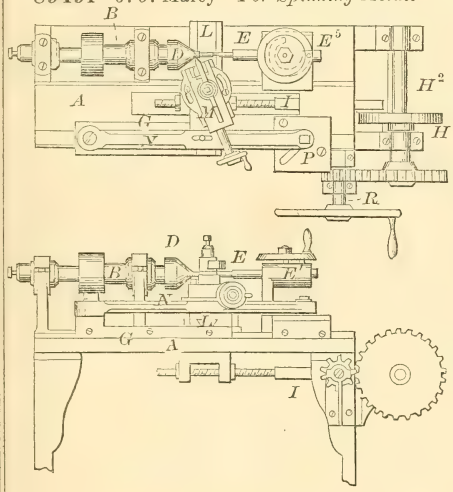
**89489**—L. Lyon—*Sewing Machine.*



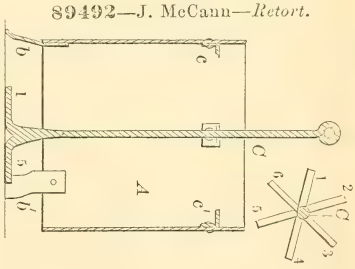

**89490**—B. K. Maltby—*Coffee Roaster.*



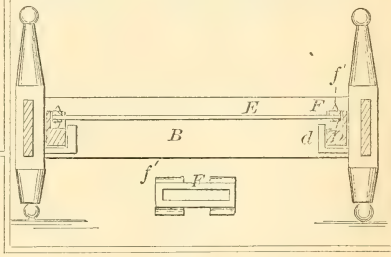

**89491**—J. J. Marcy—*For Spinning Metal.*



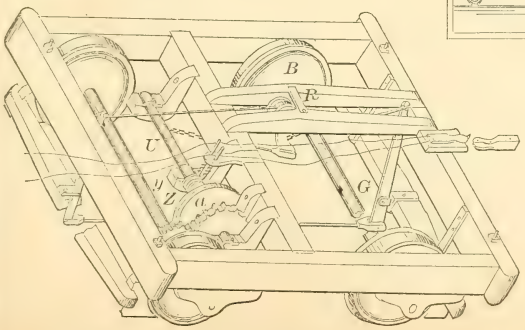

**89492**—J. McCann—*Retort.*

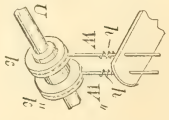


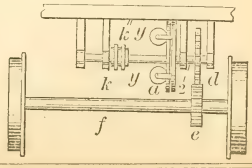

**89494**—M. Ohmer—*Bed Bottom.*



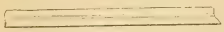

**89495**—J. Olmsted—*Car Brake.*



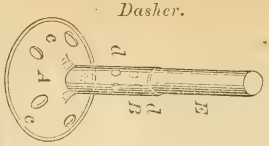



**89496**—J. W. Owen—*For Chair Seats. &c.*

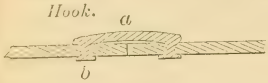


**89497**—W. S. Owen—*Churn Dasher.*

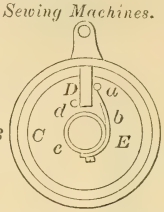



**89498**—S. H. Parish—*Shears.*

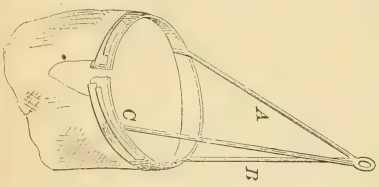
**89499**—H. L. Pierce—*Belt Hook.*



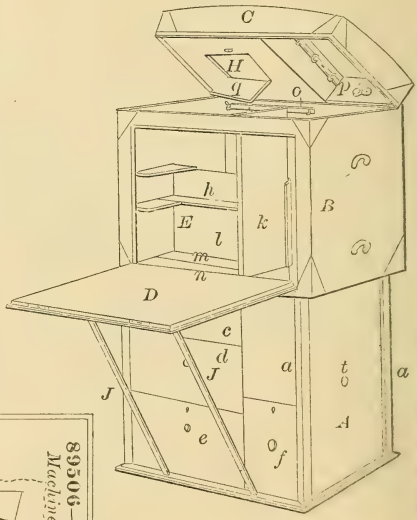

**89501**—G. M. Pratt—*For Sewing Machines.*



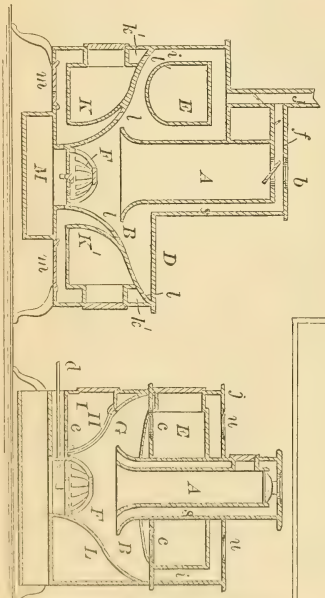

**89500**—Peyton & Wallach—*Bag Holder.*



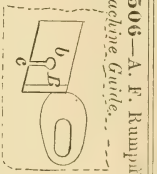

**89503**—C. R. Rand—*Trunk.*

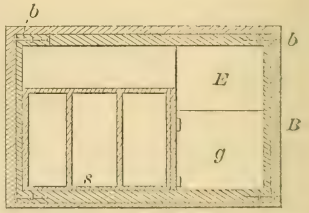



**89505**—T. P. Rossiter—*Stove.*

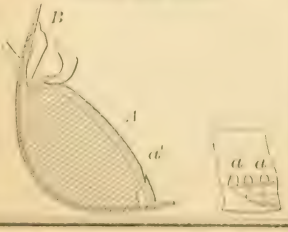



**89506**—A. F. Rumpf—*Sewing Machine Guide.*

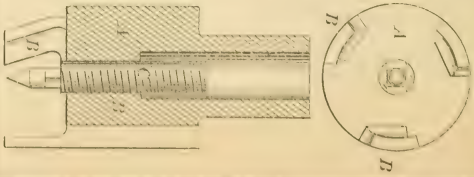


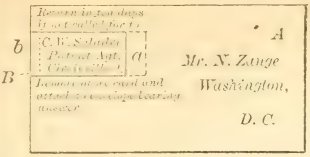

**89504**—E. P. Richardson—*Boots and Shoes*



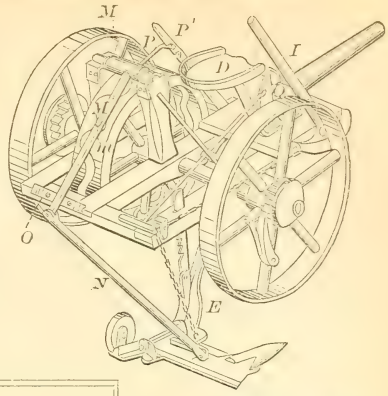

**89502**—T. Prosser—*Pin Drill.*



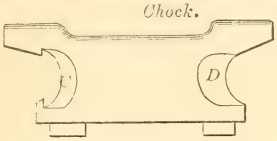
**89507**—C. W. Saladee—*Envelope.*



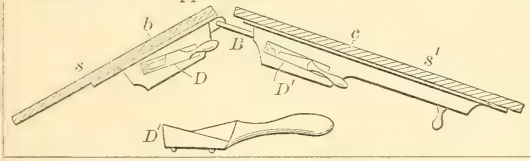

**89509**—J. W. Shaw—*Harvester.*

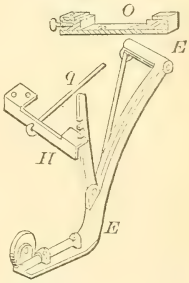



**89514**—Stevens & Brown—*Cleat and Chock.*

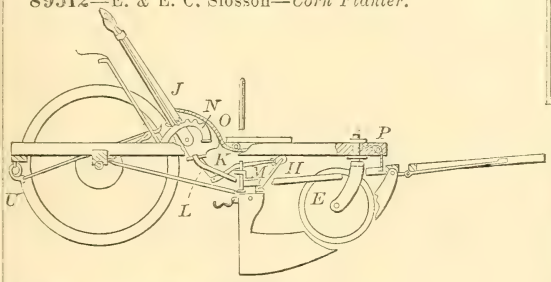


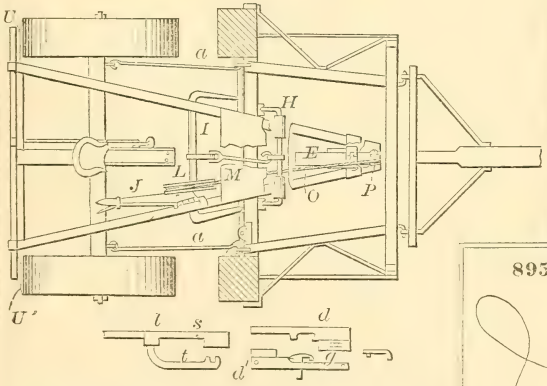

**89511**—J. F. Sipple—*Bolt.*



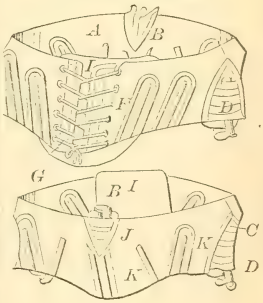




**89512**—E. & E. C. Slosson—*Corn Planter.*

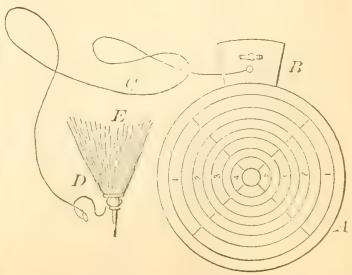


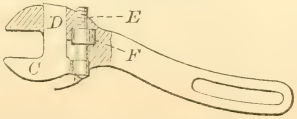

**89513**—C. Smith—*Abdominal Corset.*



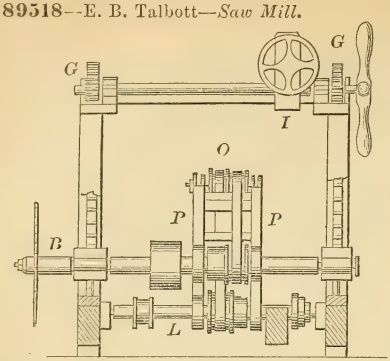

**89516**—B. L. Stone—*Toy Target.*

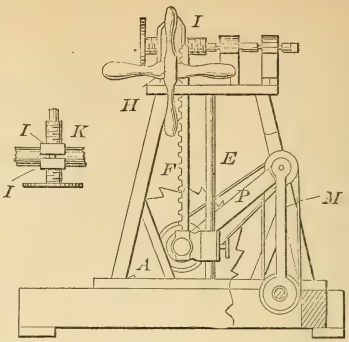



**89517**—G. C. Taft—*Wrench.*

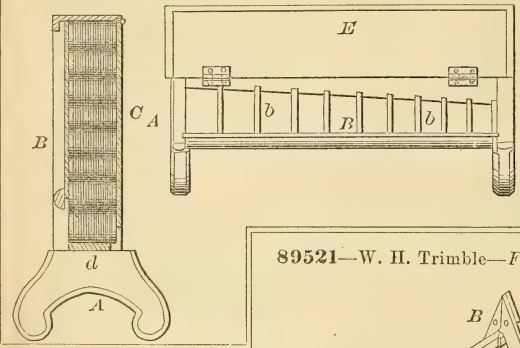


**89518**—E. B. Talbott—*Saw Mill.*

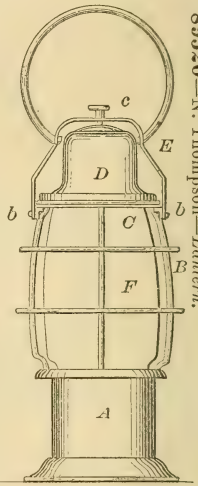


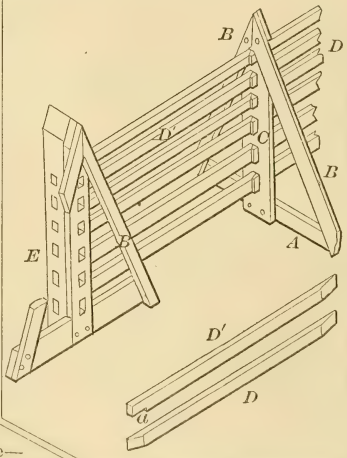

**89519**—J. P. Thompson—*Spool Case.*



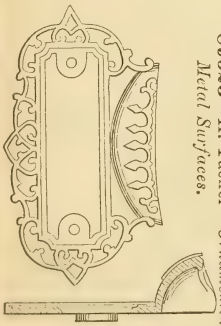

**89520**—N. Thompson—*Lantern.*



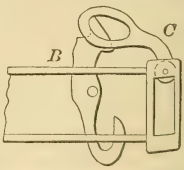

**89521**—W. H. Trimble—*Fence.*



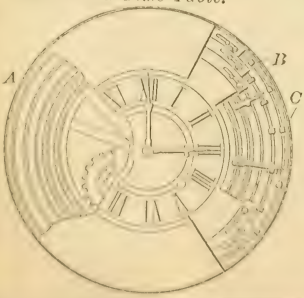

**89523**—H. Tucker—*Ornamenting Metal Surfaces.*



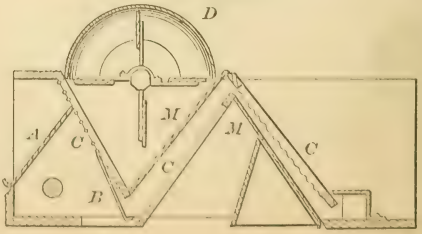
**89525**—W. V. Wallace—*Car Coupling.*



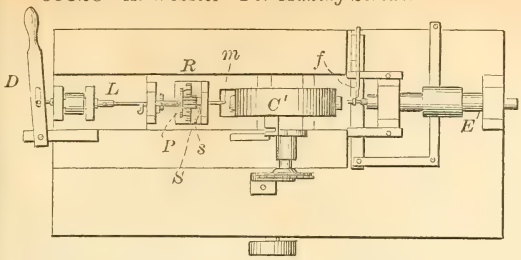

**89524**—A. H. Vancleve—*Railroad Time Table.*

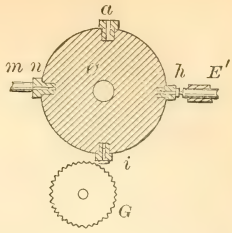



**89526**—Watson & Tinkel—*For Screening Grain and Seed*

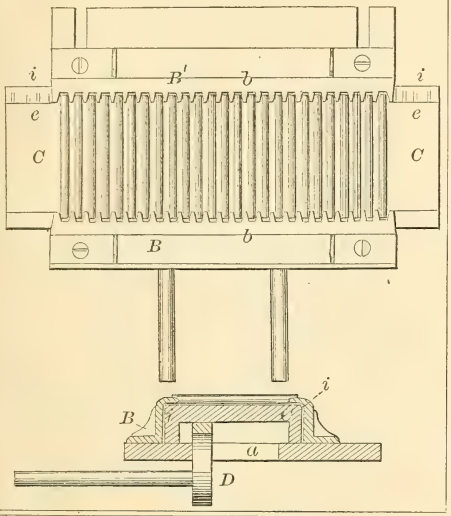


**89528**—A. Webster—*For Making Screws.*

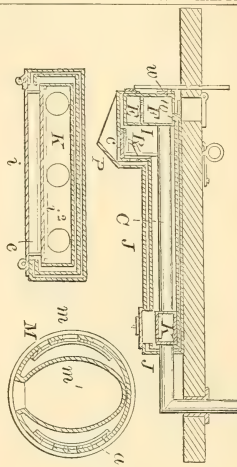


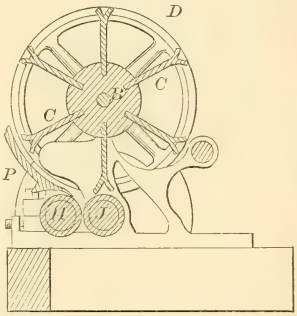

**89530**—E. Weissenborn—*For Polishing Pencils.*



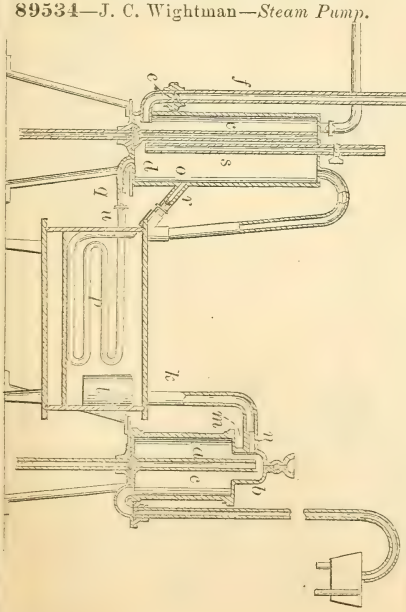

**89529**—A. Weeks—*Car Heater and Ventilator.*



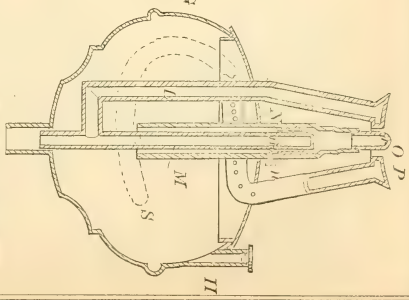

**89533**—A. Whitcomb—*Corn Husker.*



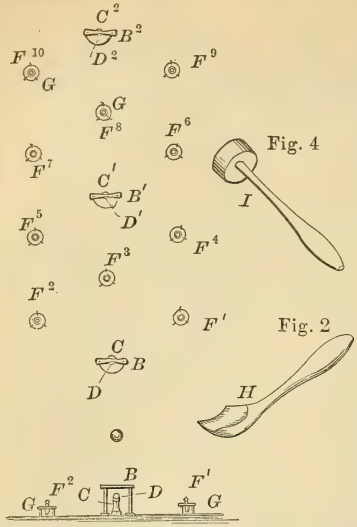

**89534**—J. C. Wightman—*Steam Pump.*



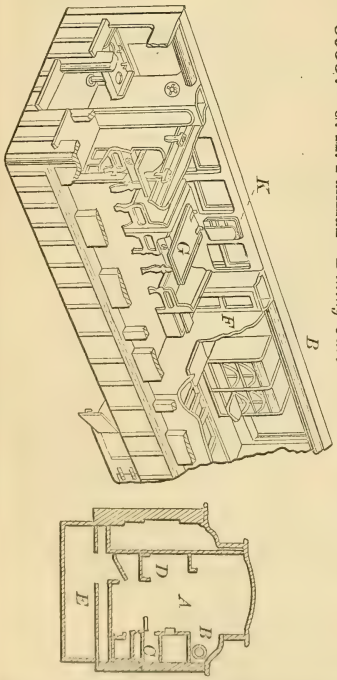

**89536**—J. S. Wood—*Lamp.*



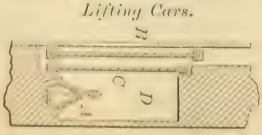
**89535**—J. W. Wilson—*Game.*



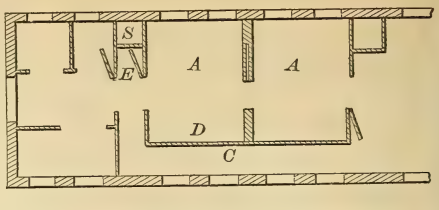

**89537**—G. M. Pullman—*Dining Car.*



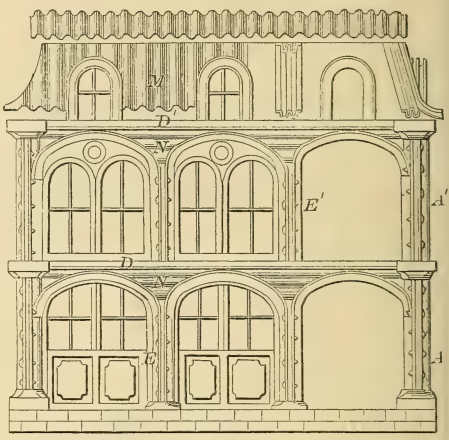
**89539**—A. Longstreet—*For Lifting Cars.*



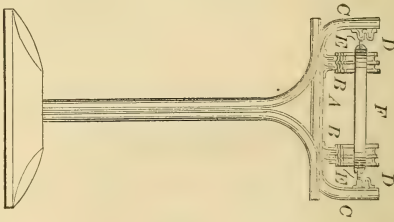
**89538**—G. M. Pullman—*Hotel Car.*



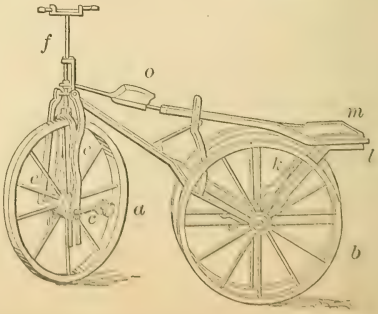
**89540**—R. Montgomery—*Corrugated Metal Building.*



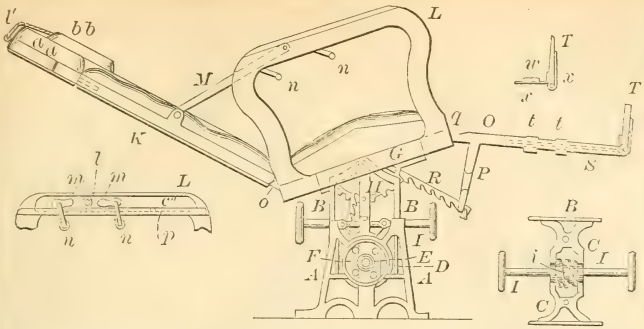
**89541**—R. Montgomery—*Elevated Railway.*



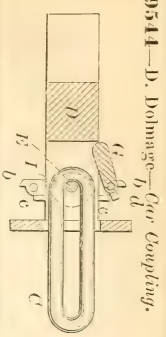
**89543**—H. C. Lawrence—*Velocipede.*



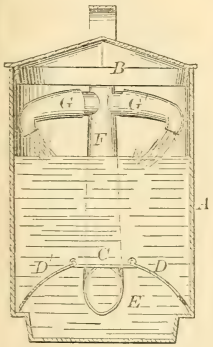
**89542**—T. C. Theaker—*Car Seat and Couch.*



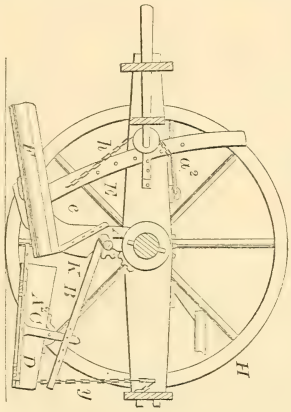
**89544**—D. Dolmage—*Car Coupling.*

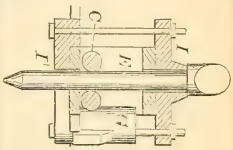


**89545**—C. E. Miller—*Wash Boiler.*

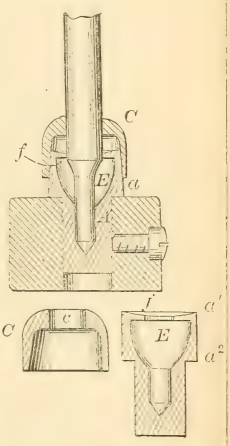


**89547**—L. L. Betlys—*Potato Digger.*

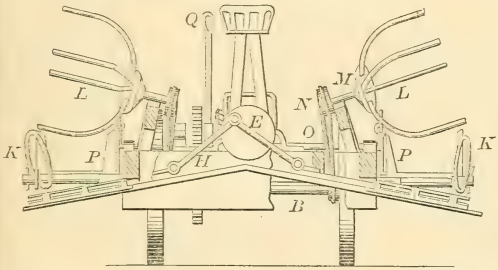


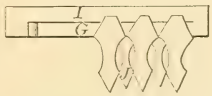


**89548**—E. Blake—*Spindle Step.*

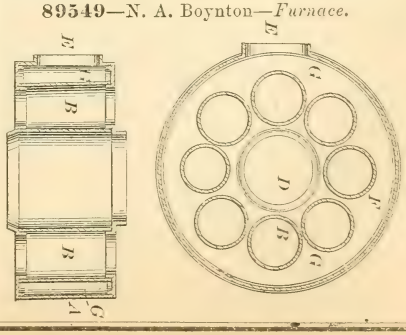


**89546**—B. F. Barney—*Corn Harvester.*

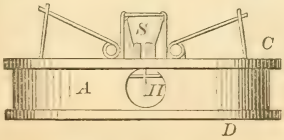




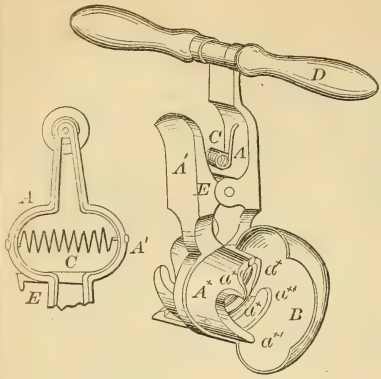
**89549**—N. A. Boynton—*Furnace.*



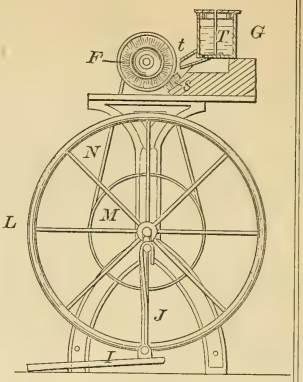
**89551**—J. N. Bunnell—*Trap.*



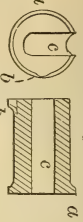
**89550**—J. Bowles—*Corn Sheller.*



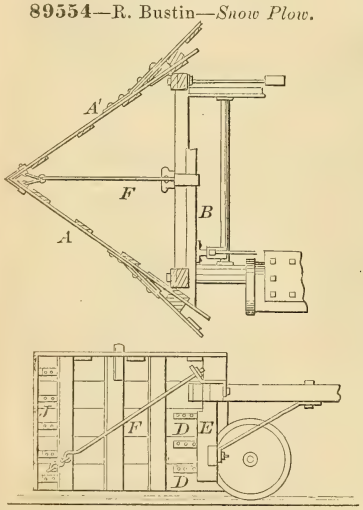

**89552**—M. Burnell—*Boot Blacking Machine.*



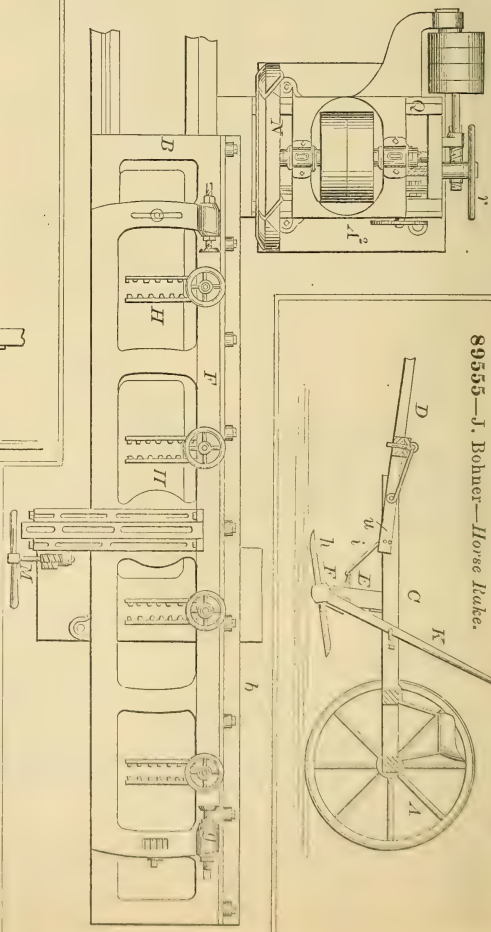

**89553**—E. Burnham—*Rope Guide.*




**89554**—R. Bustin—*Snow Plow.*




**89556**—J. Casson—*For Planing.*



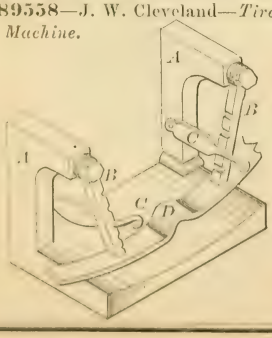

**89555**—J. Bohner—*Horse Rake.*



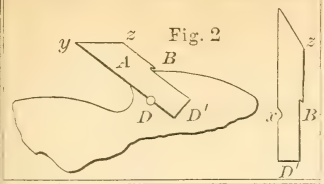

**89557**—W. A. Caswell—*Blind Stop.*



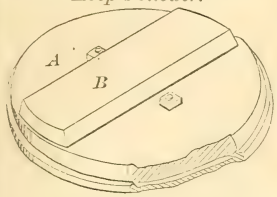

**89558**—J. W. Cleveland—*Tire Machine.*



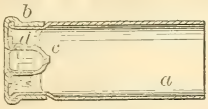
**89559**—E. Colson—*Saw Teeth.*



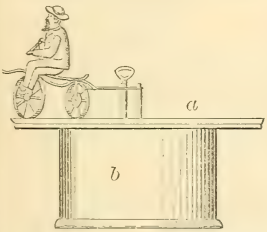

**89560**—H. Cooper—*Cheese Hoop Follower.*



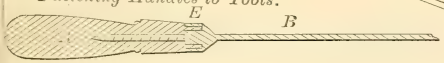

**89563**—G. H. Daw—*Cartridge.*



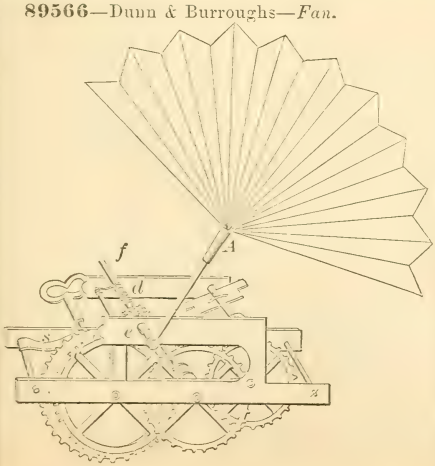

**89567**—E. Eaton—*Toy.*



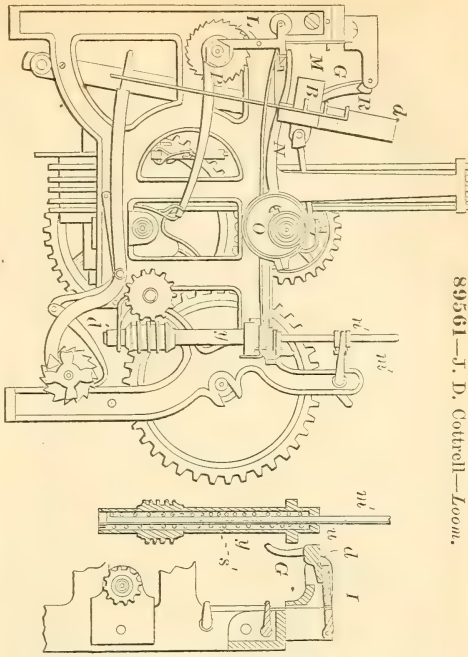

**89564**—J. M. De Witt—*Fastening Handles to Tools.*



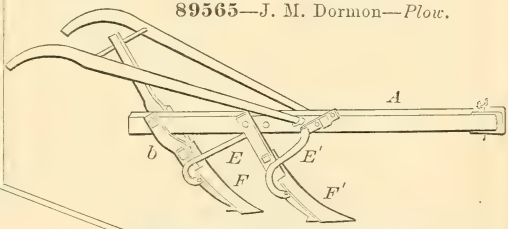

**89566**—Dunn & Burroughs—*Fan.*



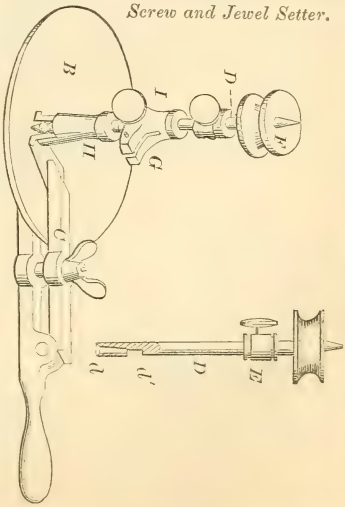

**89561**—J. D. Cottrell—*Loom.*



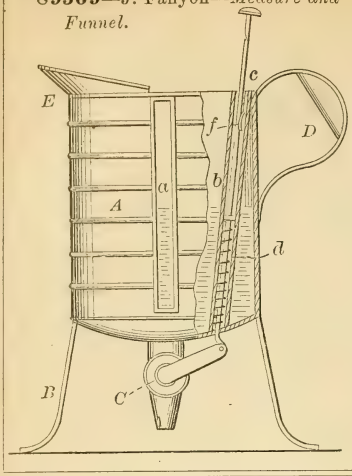

**89565**—J. M. Dormon—*Plow.*



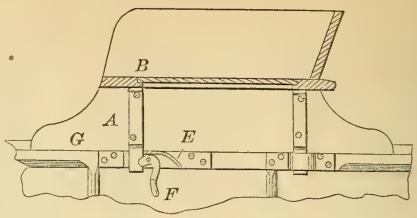

**89568**—C. E. Evard—*Freeing Tool, Screw and Jewel Setter.*



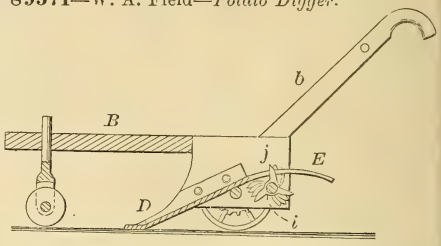
**89569**—J. Fanyon—*Measure and Funnel.*



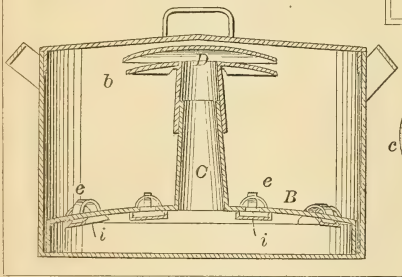

**89570**—J. H. Fellows—*Fastening Wagon Seats.*

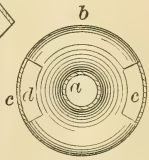



**89571**—W. A. Field—*Potato Digger.*

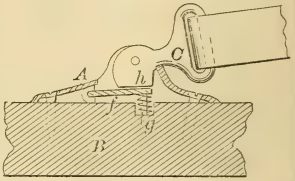



**89572**—S. Fisk—*Wash Boiler.*

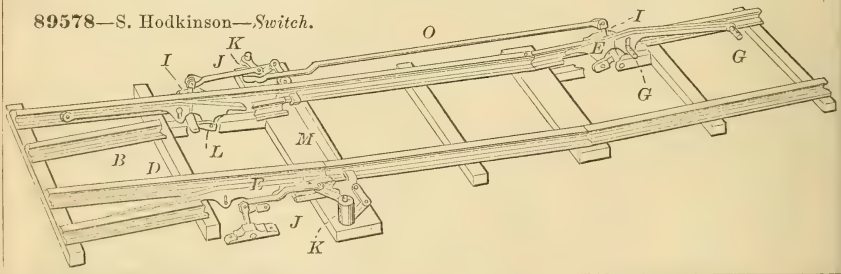


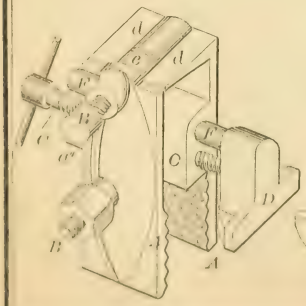

**89573**—Garrison & Stevens—*Holdback.*

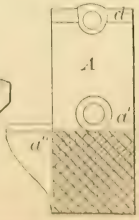



**89578**—S. Hodkinson—*Switch.*

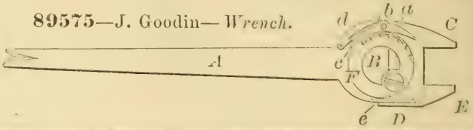



**89577**—J. A. Haase—*Floor Clamp.*

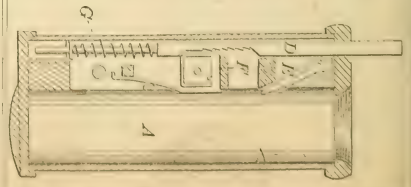


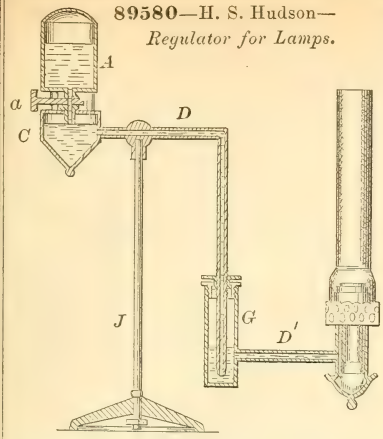

**89575**—J. Goodin—*Wrench.*



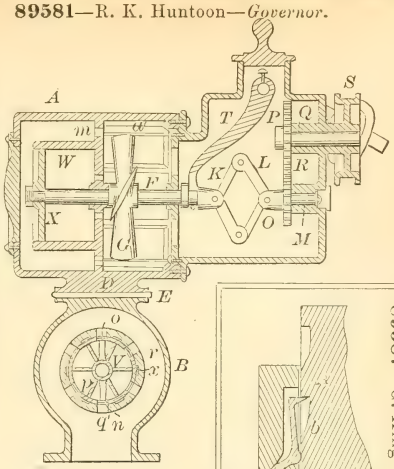

**89576**—G. H. Gregory—*Whip Socket.*



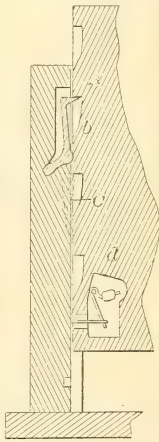
**89580**—H. S. Hudson—*Regulator for Lamps.*



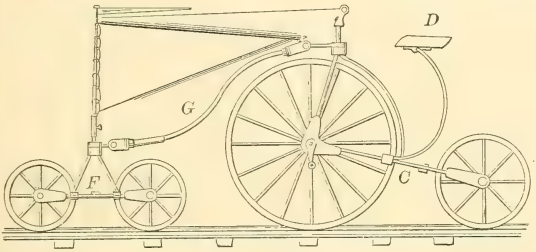

**89581**—R. K. Huntoon—*Governor.*



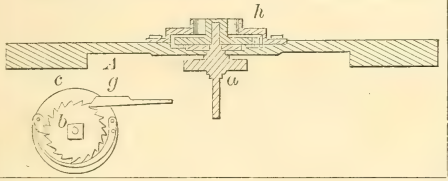

**89587**—G. King—*Sash Lock.*



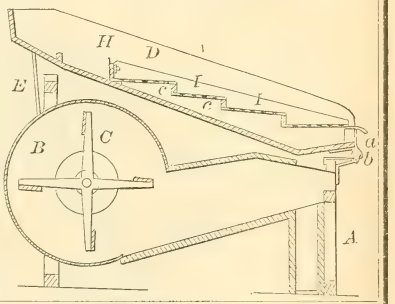

**89584**—J. H. Irwin—*Velocipede.*



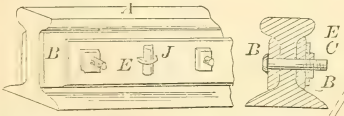

**89583**—I. Ickelheimer—*For Watch Winding.*



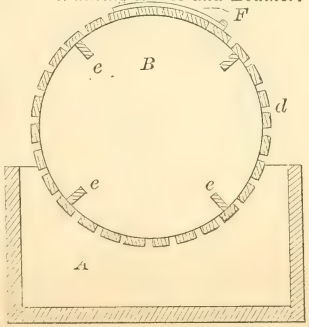

**89589**—E. McLane—*Corn Separator.*



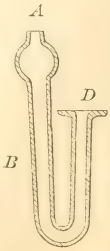

**89586**—C. F. Keller—*Locking Nuts.*



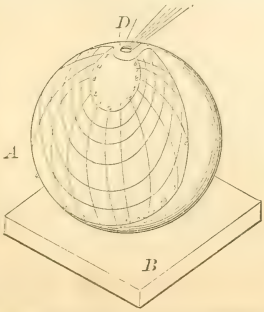

**89590**—H. N. Meeker—*For Washing Hides and Leather.*



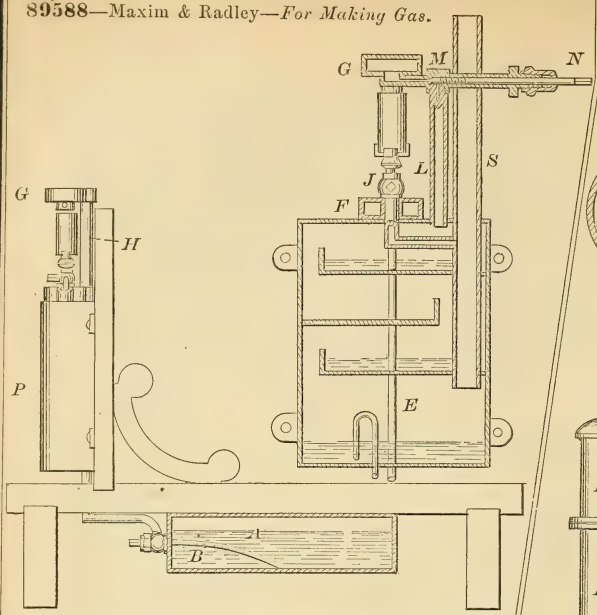

**89591**—A. P. Messer—*Inhaling Tube.*



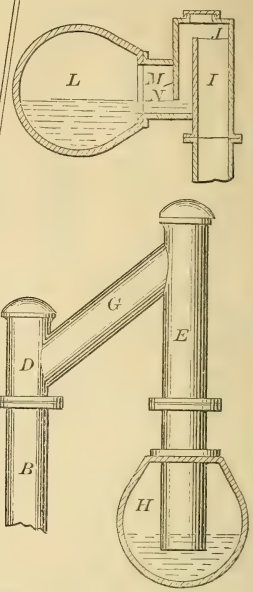

**89585**—J. Johnson—*Sun Dial.*



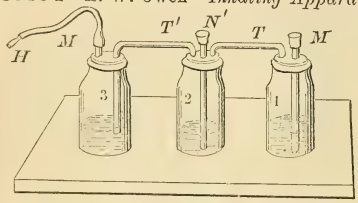
**89588**—Maxim & Radley—*For Making Gas.*



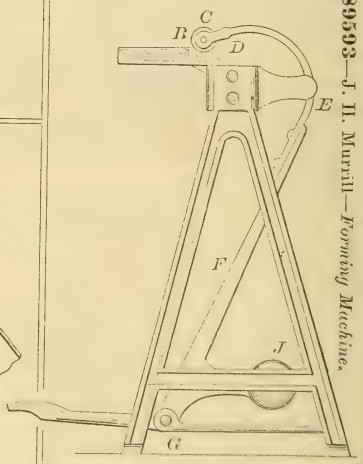

**89592**—P. Munzinger—*Straddle Pipe.*



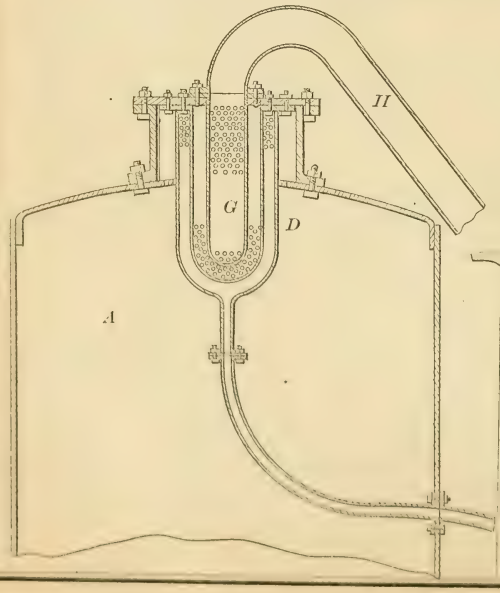

**89594**—E. W. Owen—*Inhaling Apparatus.*



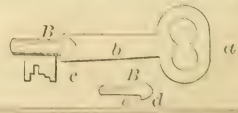

**89593**—J. H. Murrill—*Forming Machine.*



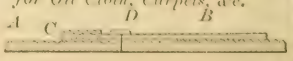

**89595**—Page & East—*Steam Generator.*



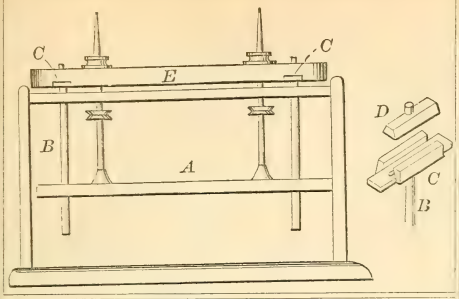

**89596**—E. Parker—*Door Key.*



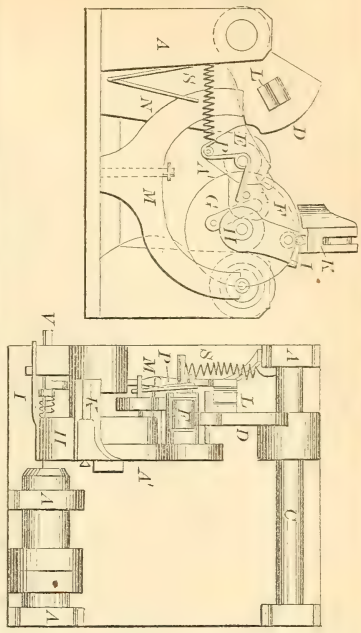

**89599**—J. Piper—*Metal Binding for Oil Cloth, Carpets, &c.*



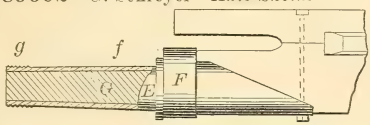
**89597**—S. B. Parmenter—*Spinning Frame.*



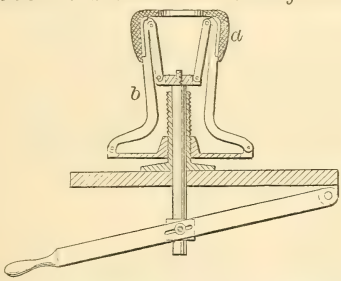

**89598**—E. S. Pierce—*For Conveying Screw Blanks.*



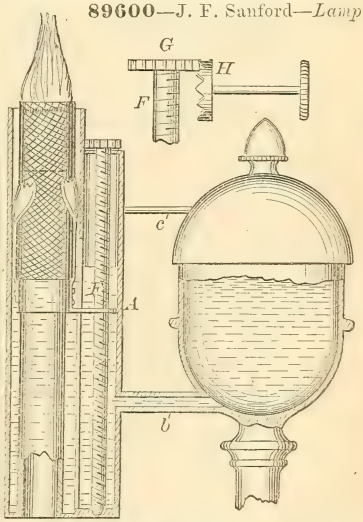
**89602**—G. Schreyer—*Axle Skein.*



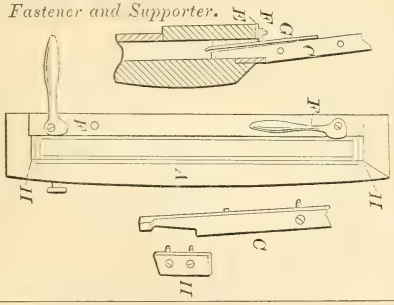

**89601**—J. Sheldon—*Hat Blocking Machine.*



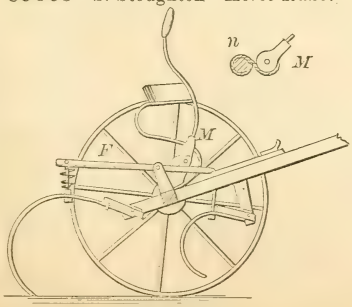

**89600**—J. F. Sanford—*Lamp.*



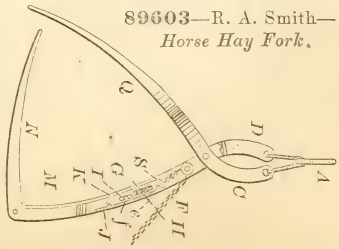

**89604**—W. Stewart—*Carriage Sash Fastener and Supporter.*



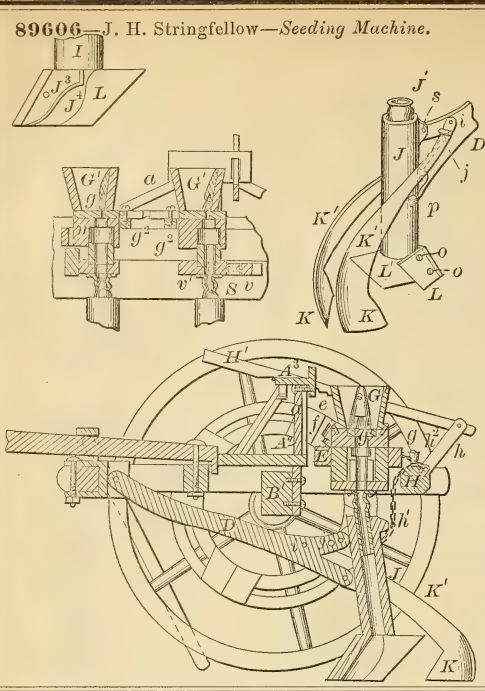
**89605**—S. Stoughton—*Horse Rake.*



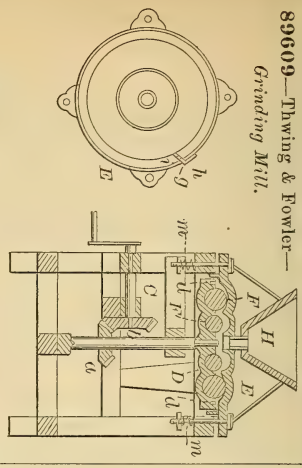

**89603**—R. A. Smith—*Horse Hay Fork.*



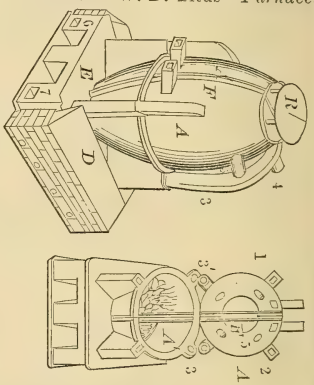
**89606**—J. H. Stringfellow—*Seeding Machine.*



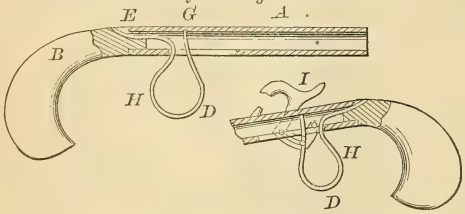
**89609**—Thwing & Fowler—*Grinding Mill.*



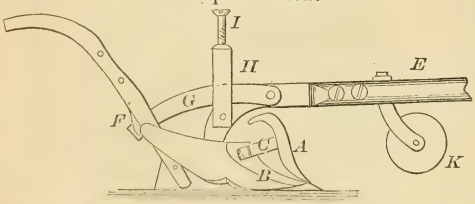
**89610**—W. D. Titus—*Furnace.*



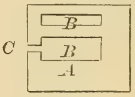
**89607**—C. B. Thayer—*Toy Gun.*



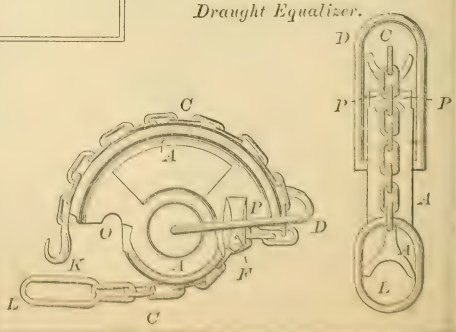
**89608**—S. R. Thompson—*Plow.*



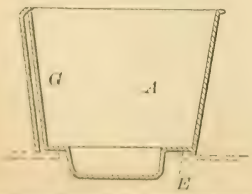
**89612**—J. S. Wallis—*Cotton Bale Tie.*



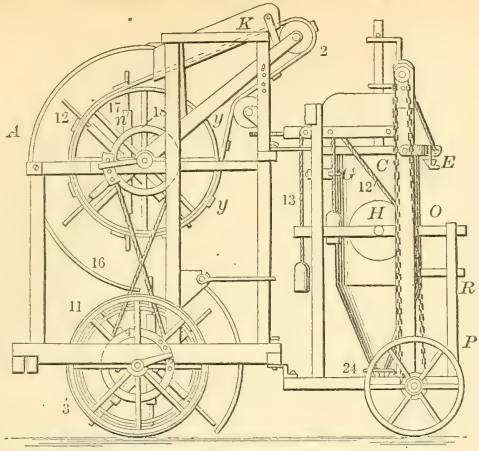
**89614**—S. H. Wheeler—*Draught Equalizer.*



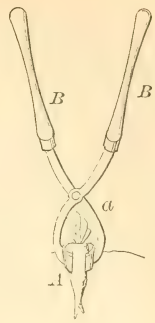
**89613**—B. Wardwell—*Culinary Apparatus.*



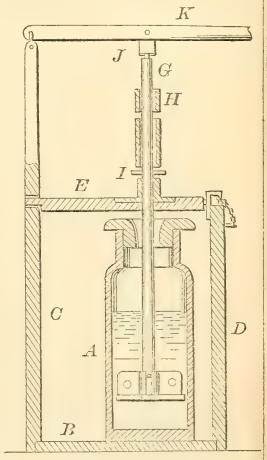
**89611**—J. Wadleigh—*For Raking and Cocking Hay.*

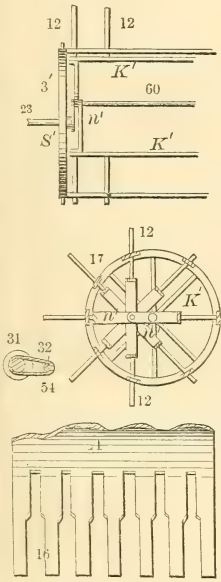


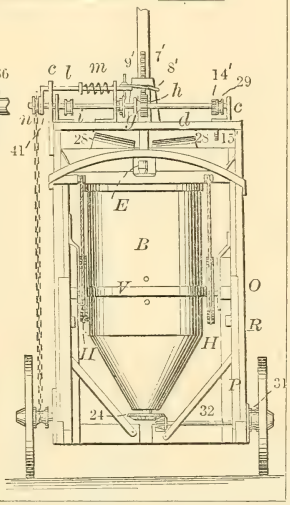

**89615**—B. Wright—*Root Digger.*



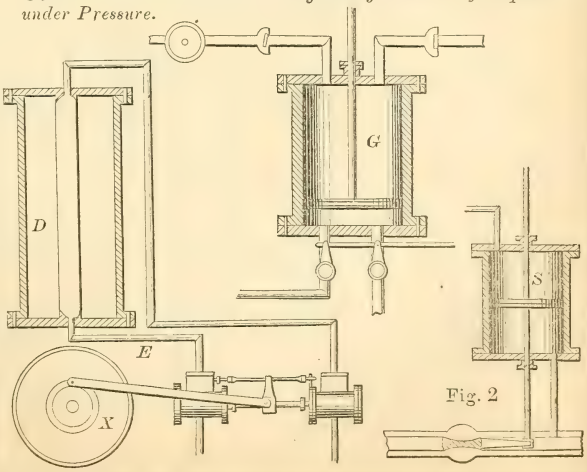

**89616**—S. S. Allen—*Churn.*



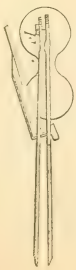



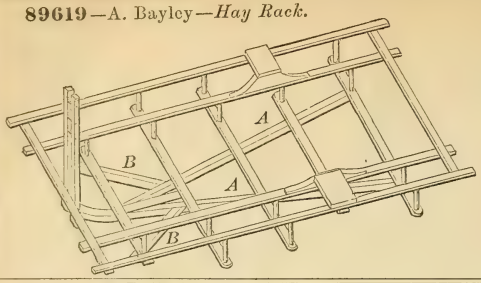

**89617**—J. S. Baldwin—*For Regulating the Flow of Liquids under Pressure.*



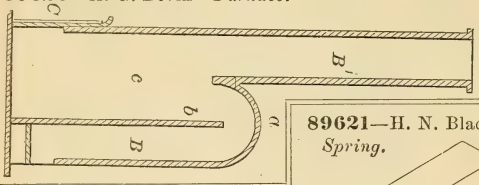

**89618**—Barber & Loomis—*Needle Setter and Thread Pincers.*



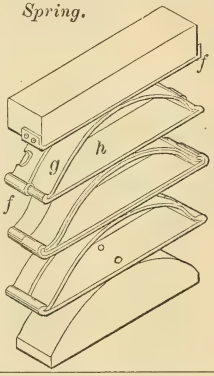
**89619**—A. Bayley—*Hay Rack.*



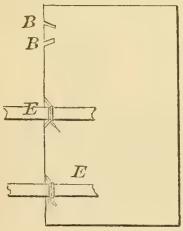

**89620**—A. G. Bevin—*Furnace.*



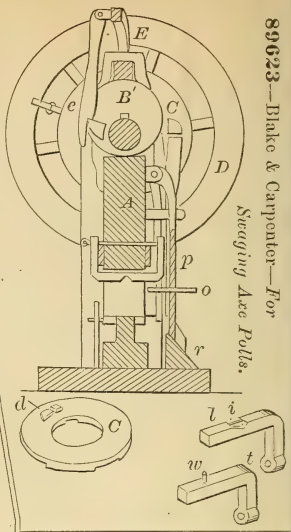

**89621**—H. N. Black—*Spring.*



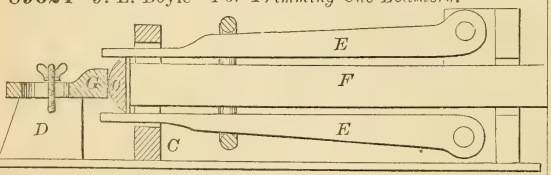

**89622**—W. I. Blackman—*Book Binding.*



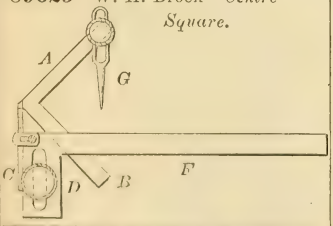

**89623**—Blake & Carpenter—*For Swaging Axe Polls.*

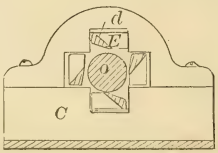



**89624**—J. E. Boyle—*For Trimming Cue Leathers.*

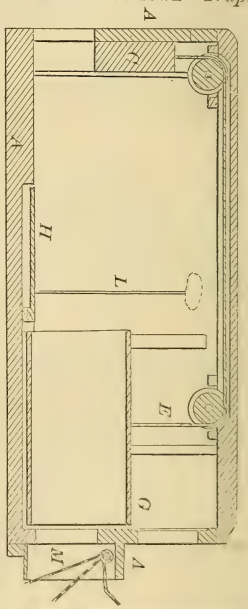



**89625**—W. H. Brock—*Centre Square.*

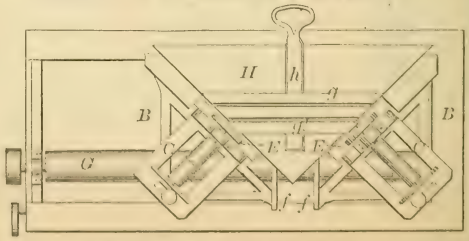


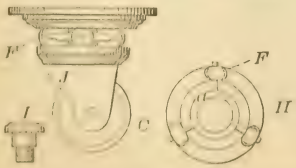

**89626**—E. Brown—*Trap.*



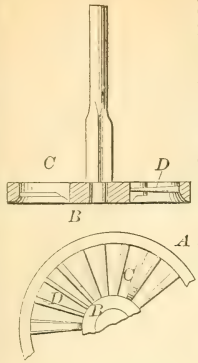

**89627**—J. H. Brown—*Mitre Machine.*



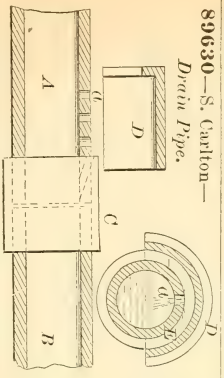

**89628**—M. S. Brownell—*Caster.*



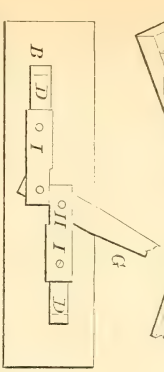
**89629**—J. M. Buchanan—*Churn Dasher.*



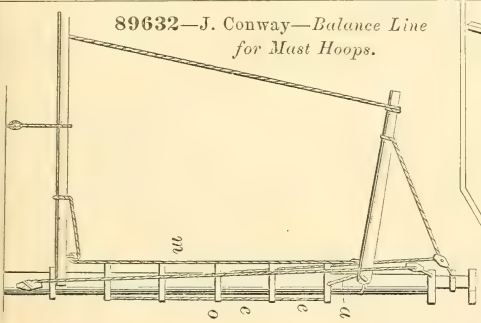

**89630**—S. Carlton—*Drain Pipe.*



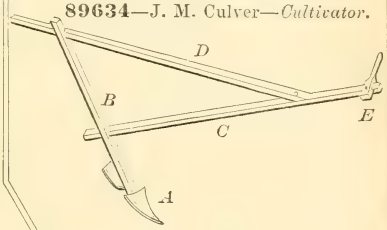

**89631**—Carter & Gibson—*Upsetting Machine.*



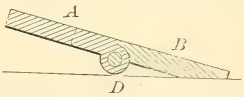

**89632**—J. Conway—*Balance Line for Mast Hoops.*



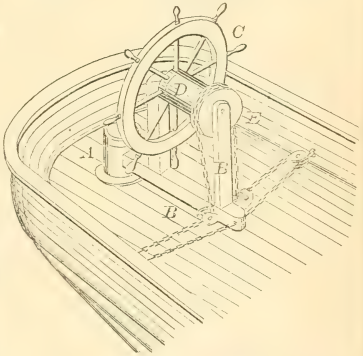

**89634**—J. M. Culver—*Cultivator.*



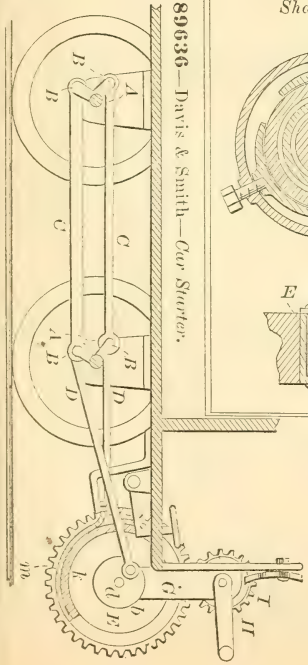

**89633**—P. Cullen—*Boot Jack.*



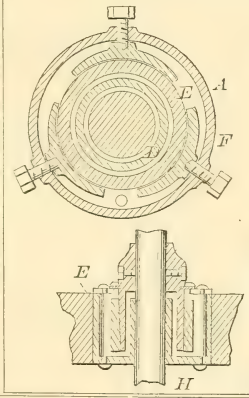

**89635**—G. H. Davis—*Steering Apparatus.*



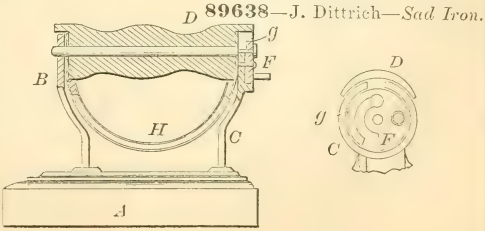

**89636**—Davis & Smith—*Car Starter.*



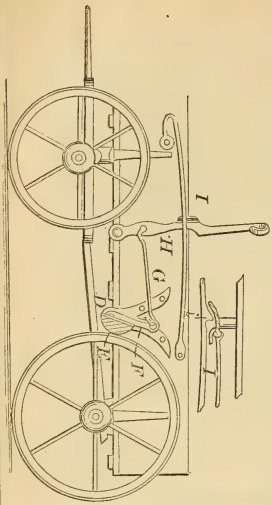

**89637**—E. A. Dayton—*Shaft Bearing.*



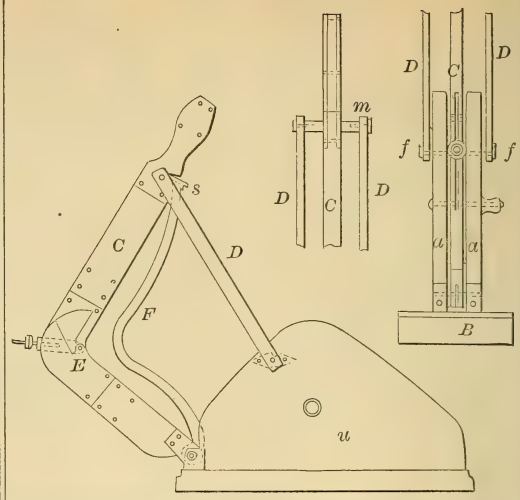

**89638**—J. Dittrich—*Sad Iron.*



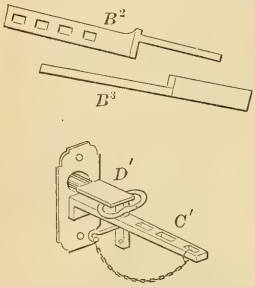
**89639**—G. B. Douglas—*Wagon Brake.*



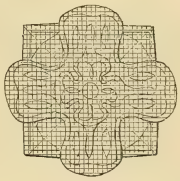

**89640**—W. R. Dunn—*Boot Crimper.*



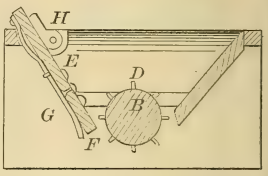

**89641**—R. S. Dunning—*Key Fastener.*



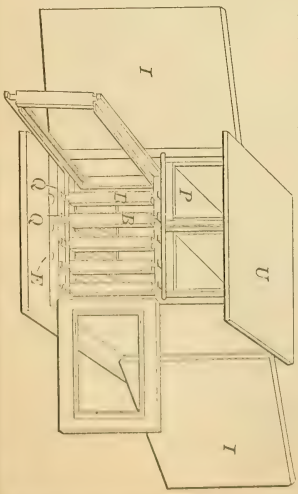

**89642**—F. J. Emery—*Metal Ornaments.*



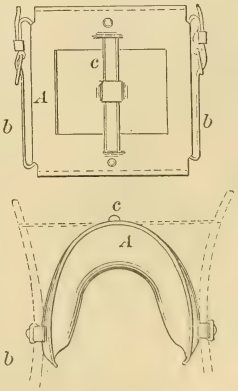
**89643**—Farnham & Mosher—*Fanning Mill.*



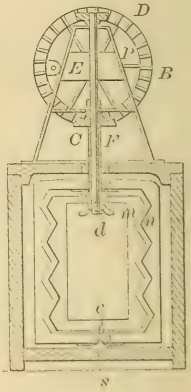

**89644**—J. E. Finley—*Beehive*



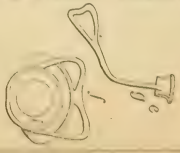

**89646**—C. J. Fisher—*Neck Pad for Horses.*



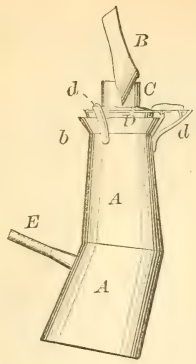

**89345**—J. E. Finley—*Churn.*



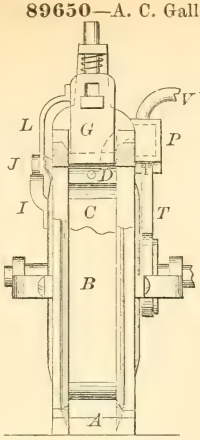

**89647**—E. J Fraser—*Uterine Supporter.*

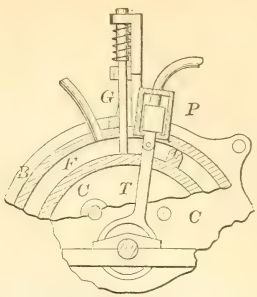


**89648**—T. Fravel—*For Treating Diseases.*

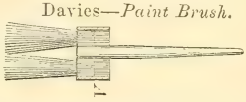



**89650**—A. C. Gallahue—*Steam Engine.*

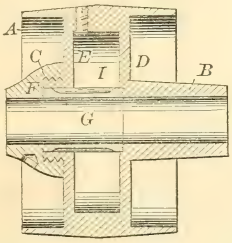


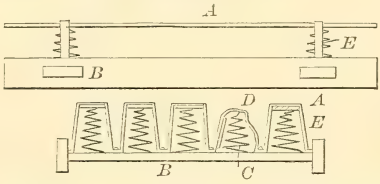

**89649**—Furnald, Champion & Davies—*Paint Brush.*



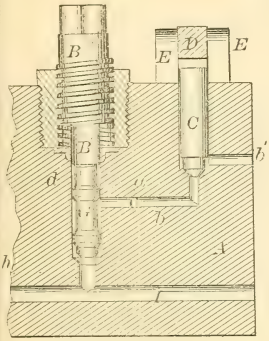
**89652**—Goodrich & Colburn—*Pulley.*



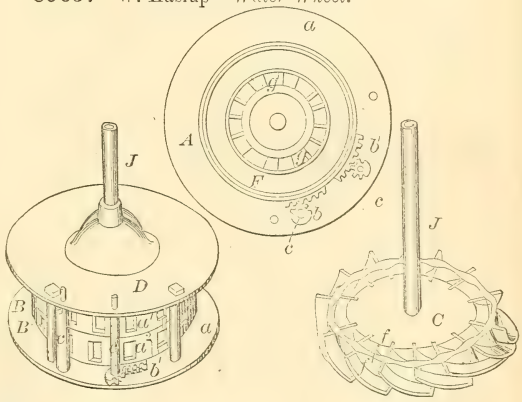

**89651**—G. L. Gerard—*Bed Bottom.*



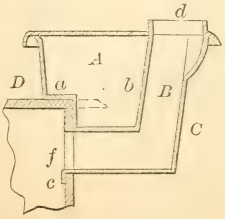

**89656**—T. Harbottle—*Press.*



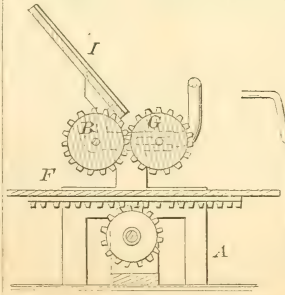

**89657**—W. Haslup—*Water Wheel.*

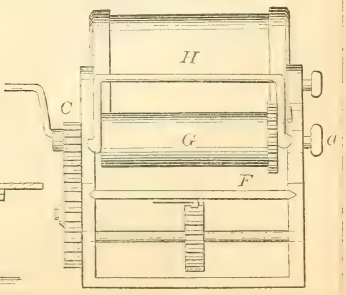



**89655**—R. Ham—*Stove.*

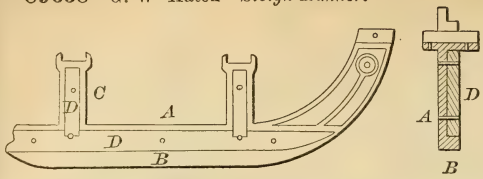



**89653**—Goodwin & Bennett—*Dough Rolling Machine.*

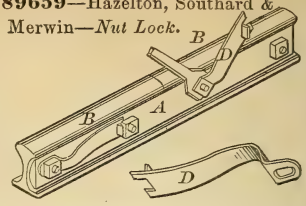


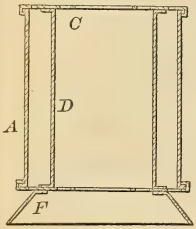
**89658**—G. W Hatch—*Sleigh Runner.*




**89659**—Hazelton, Southard & Merwin—*Nut Lock.*

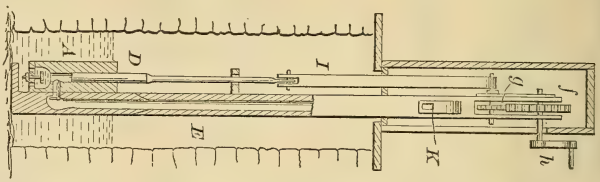



**89660**—G. W. Helt—

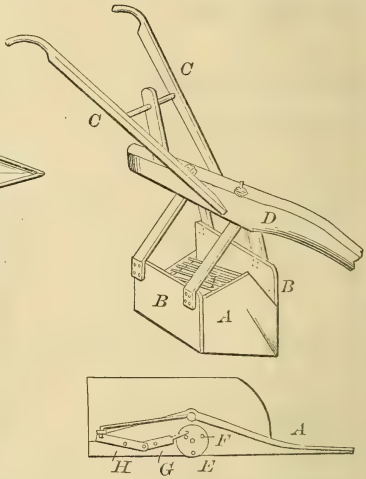



*Stove Pipe Thimble.*

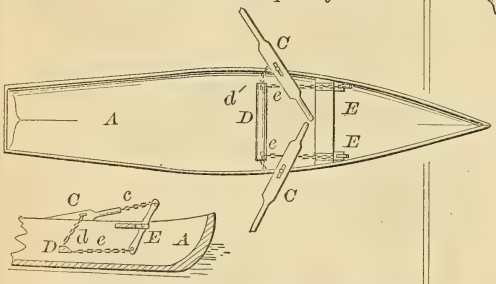
**89662**—D. P. Henry—*Pump.*



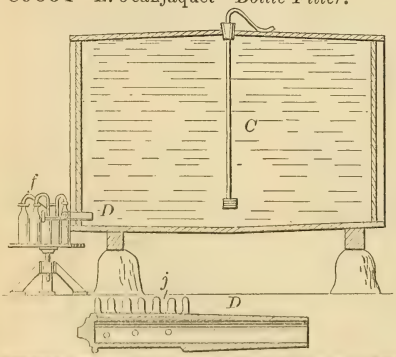

**89661**—T. N. Henderson—*Potato Digger.*



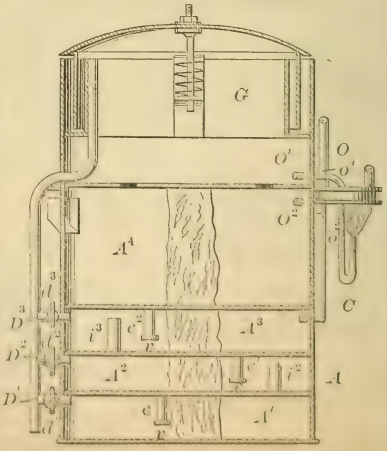

**89663**—J. Heroux—*For Propelling Boats.*



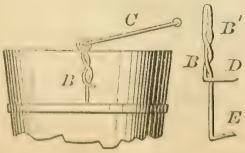

**89664**—E. Jeanjaquet—*Bottle Filler.*



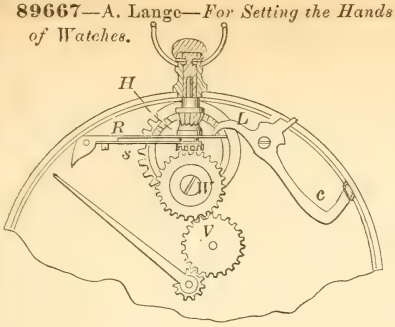

**89665**—J. Jonson—*Carburettor.*



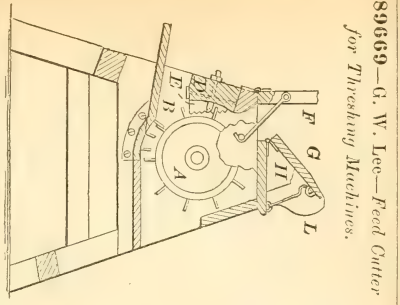

**89666**—J. G. Krichbaum—*Pail Ear.*



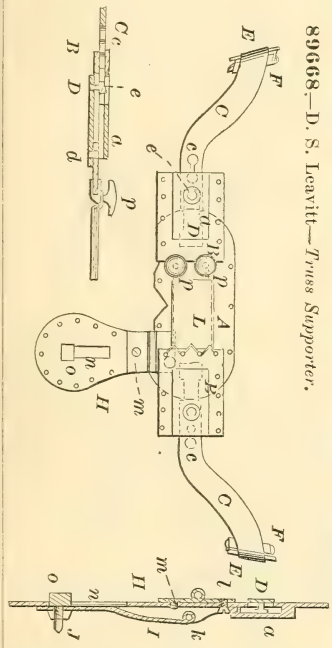
**89667**—A. Lange—*For Setting the Hands of Watches.*



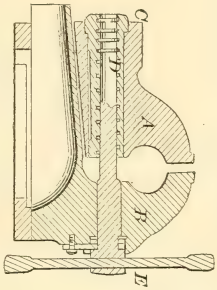

**89669**—G. W. Lee—*Feed Cutter for Threshing Machines.*



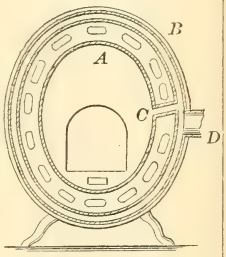

**89668**—D. S. Leavitt—*Truss Supporter.*



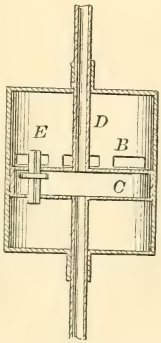

**89671**—J. H. Lewis—*Vise.*



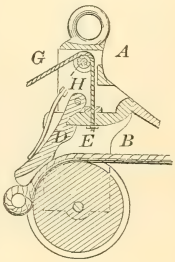

**89670**—M. Lehmer—*Stove.*



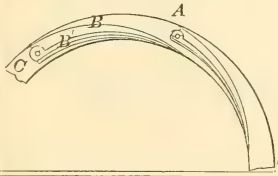

**89672**—J. H. Ludlington—*Pump.*



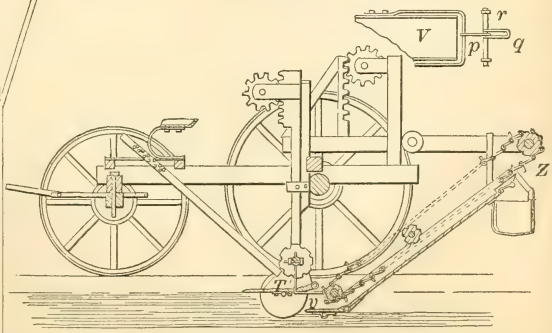

**89673**—O. E. Mabie—*For Elevating Hay.*



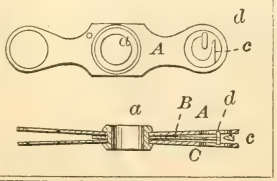

**89674**—T. W. Mahler—*Water Wheel Gate.*



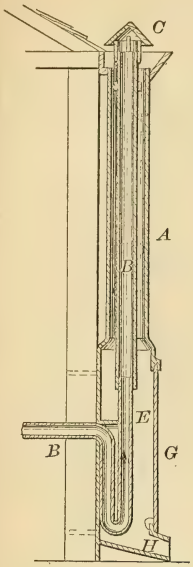

**89676**—W. D. McKinney—*Ditching Machine*



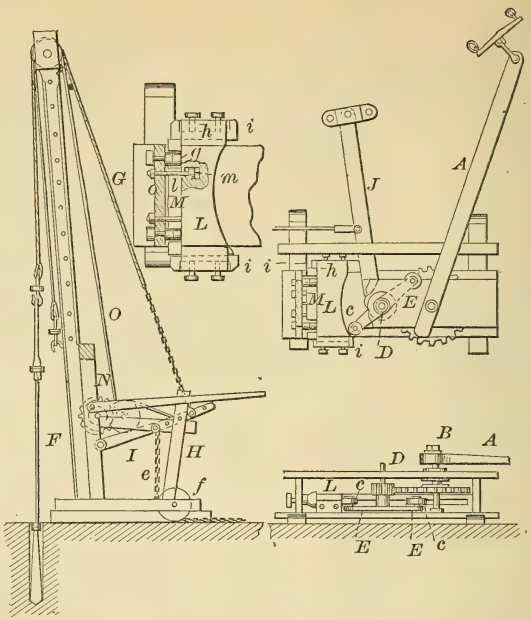

**89675**—W. H. Mantz—*Envelope Opener.*



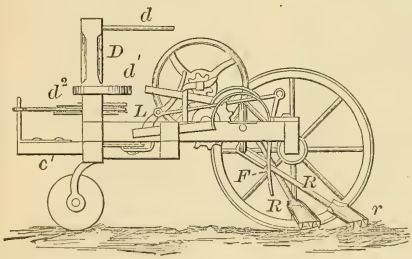
**89677**—J. F. McNee—*Rain Lead.*

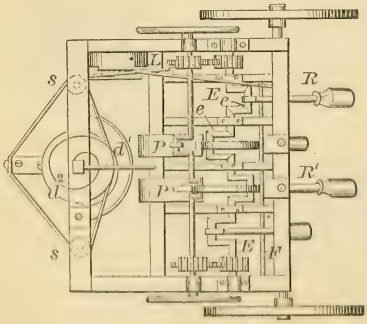



**89678**—C. L. Merrill—*Horse Power.*

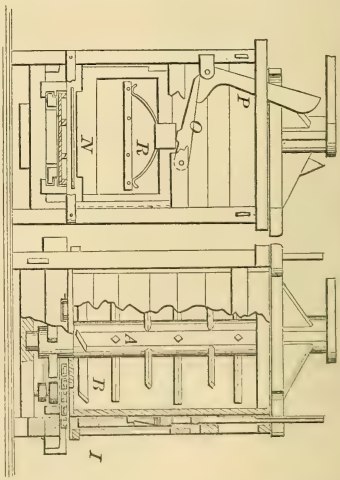


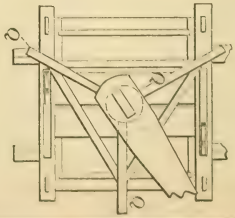

**89679**—H. T. Metzgar—*Velocipede.*



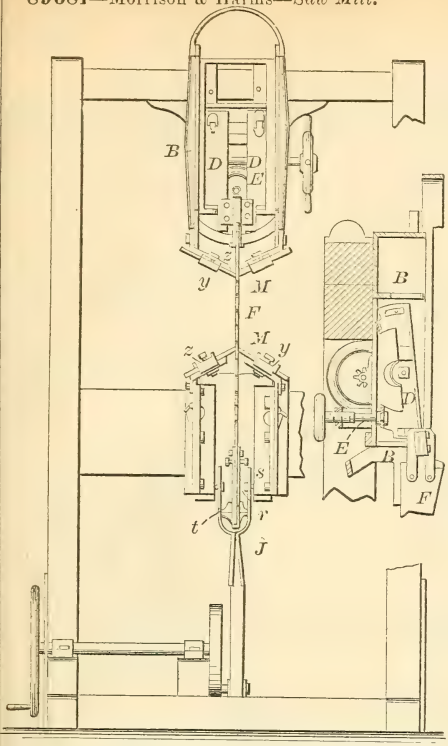




**89680**—A. Morgan—*Brick Machine.*

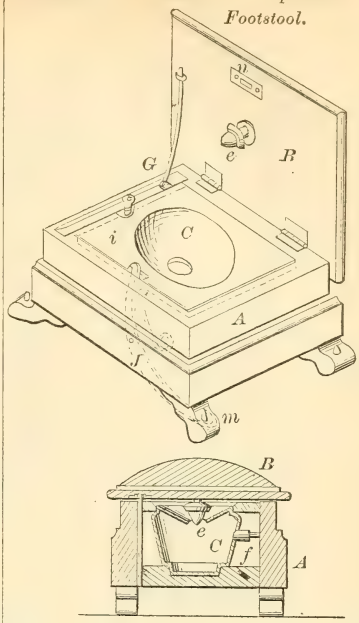


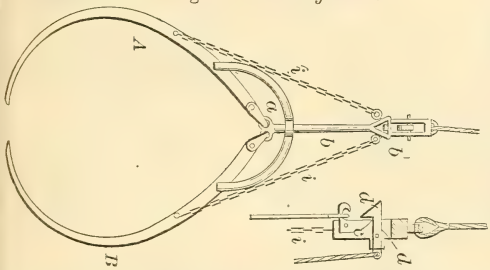
**89681**—Morrison & Harms—*Saw Mill.*



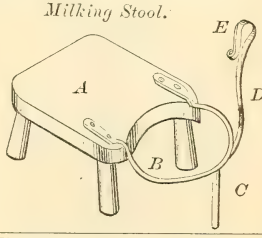

**89682**—J. N. Morrison—*Spittoon Footstool.*



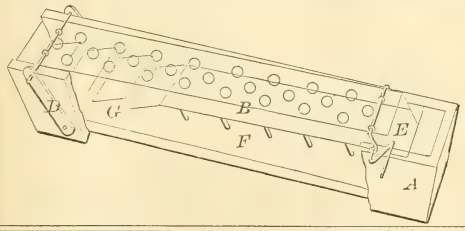

**89683**—S. T. Nigh—*Horse Hay Fork.*



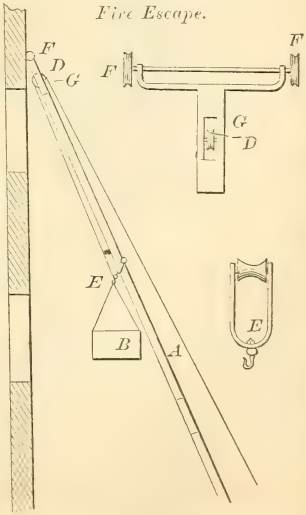

**89684**—Pollock & Trickey—*Milking Stool.*



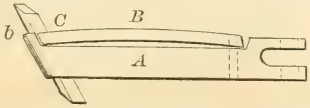

**89685**—L. E. Ransom—*For Tempering Clay.*



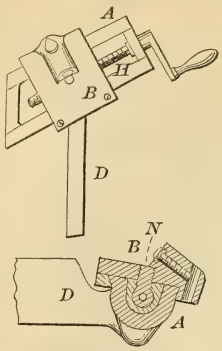

**89686**—E. P. Richardson—*Fire Escape.*



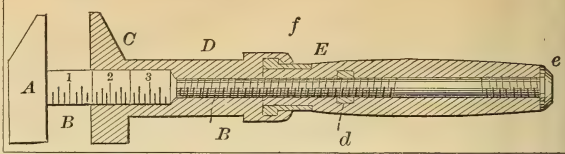

**89688**—H. D. Richardson—*Tool Holder.*



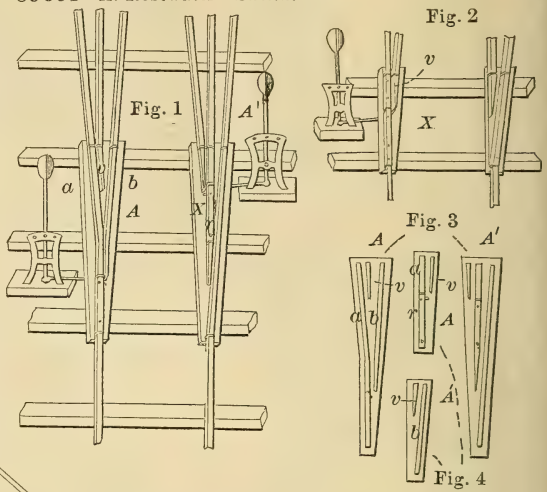
**89687**—H. D. Richardson—*Tool for Turning Centres.*



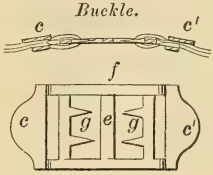

**89690**—F. C. Richer—*Wrench.*



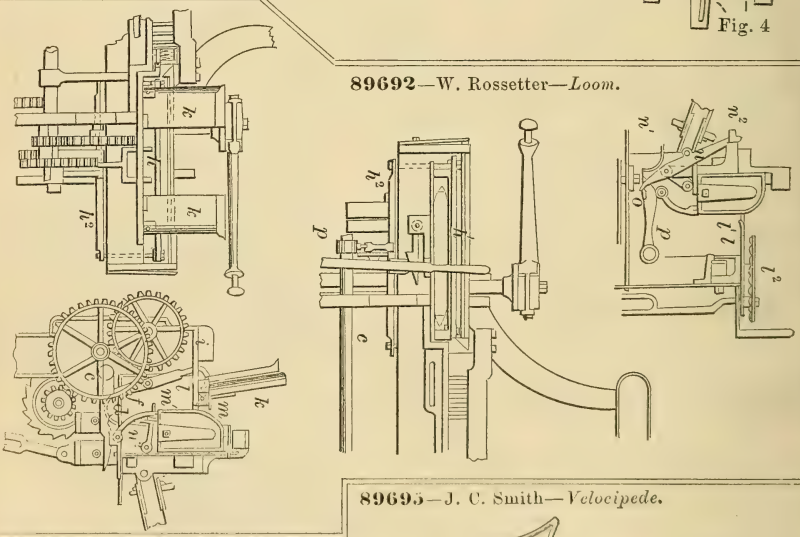

**89691**—A. Rosewater—*Switch.*



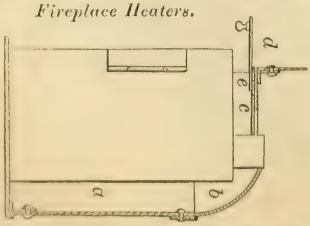

**89689**—F. C. Richer—*Buckle.*



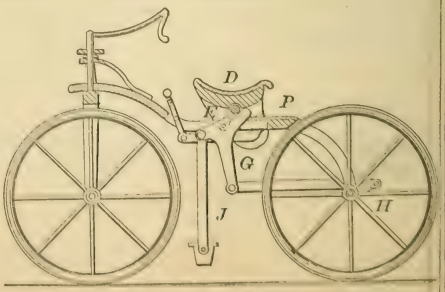

**89692**—W. Rossetter—*Loom.*



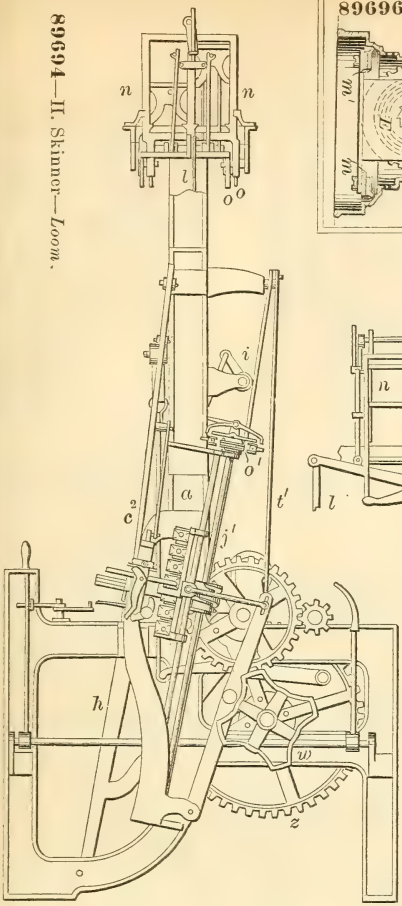

**89693**—W. Sanford—*Jacket for Fireplace Heaters.*

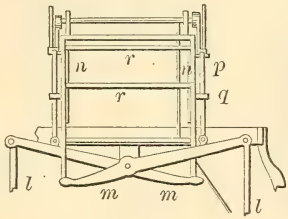


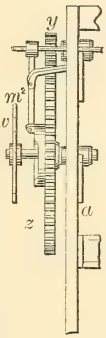

**89695**—J. C. Smith—*Velocipede.*



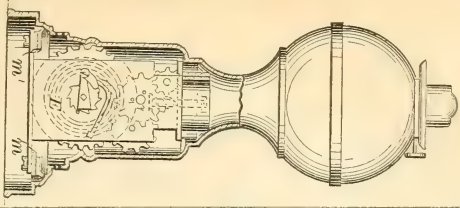
**89694**—H. Skinner—*Loom.*



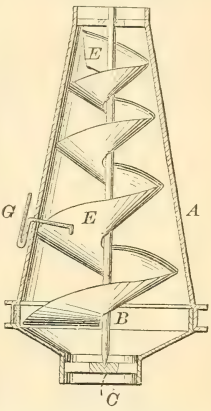



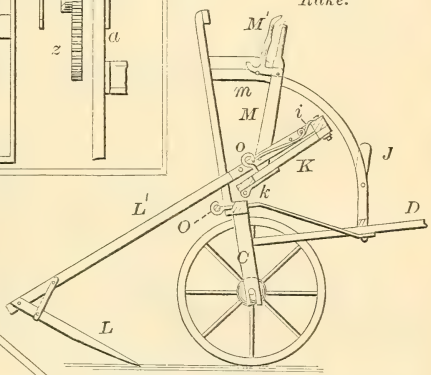

**89696**—S. P. Smith—*Lamp.*



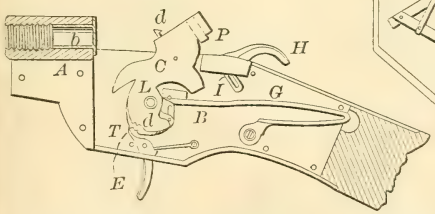

**89698**—F. Städter—*Stove Drum.*



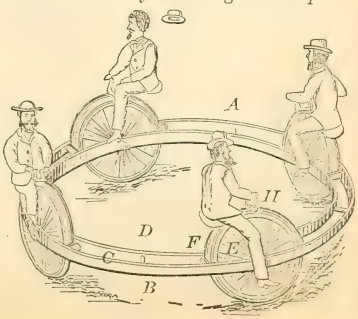

**89697**—S. P. Smith—*Horse Rake.*



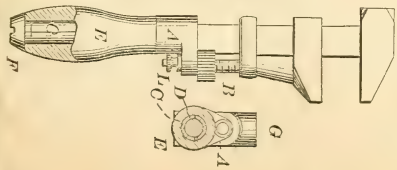

**89699**—A. C. Stevens—*Fire Arm.*



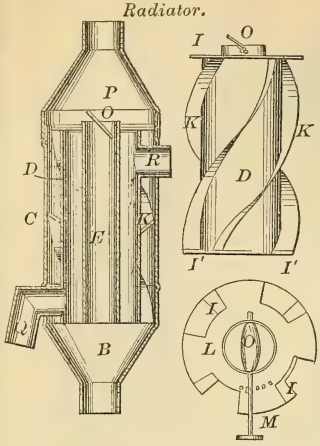

**89700**—Sturdy & Young—*Velocipede.*



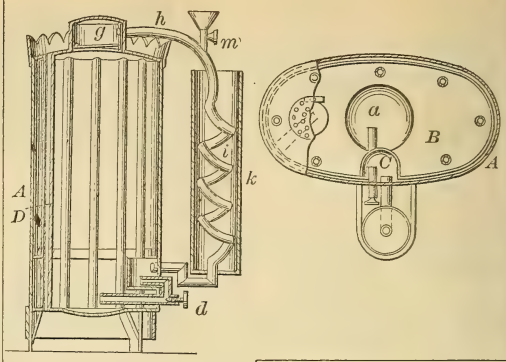

**89702**—G. C. Taft—*Wrench.*



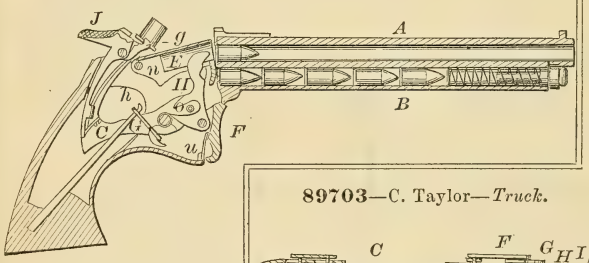
**89701**—D. F Sweet—*Heat Radiator.*

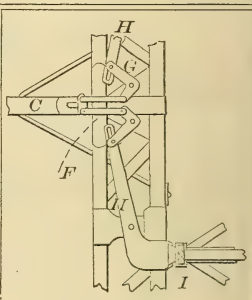


**89706**—J. B. Terry—*Steam Heating.*

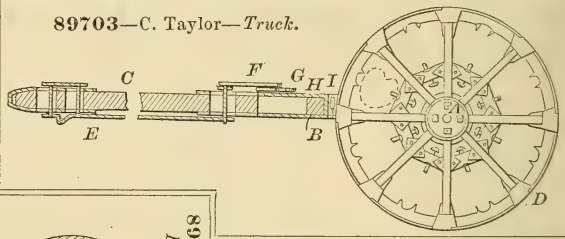


**89705**—L. Z. Terrill—*Fire Arm.*



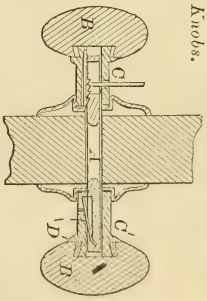


**89703**—C. Taylor—*Truck.*

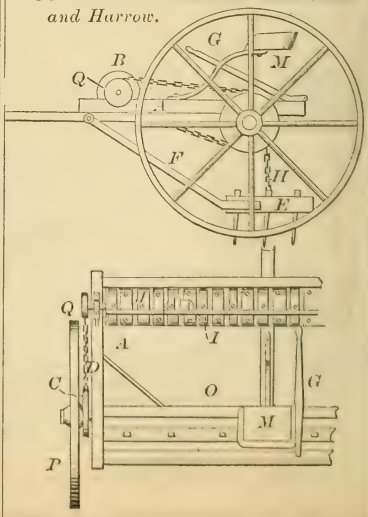


**89707**—G. W. Tucker—*Lamp Shade.*

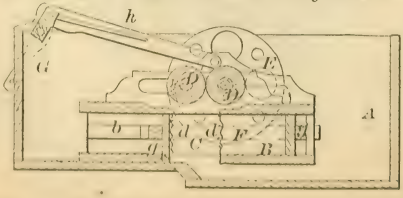
**89708**—H. B. Tuthill—*Attaching Knobs.*



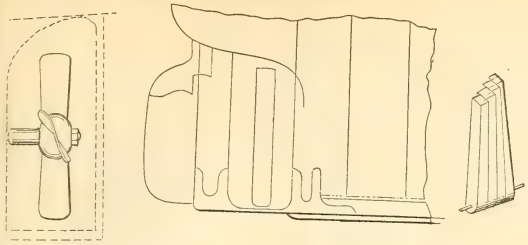
**89710**—M. Vandeusen—*Seed Sower and Harrow.*



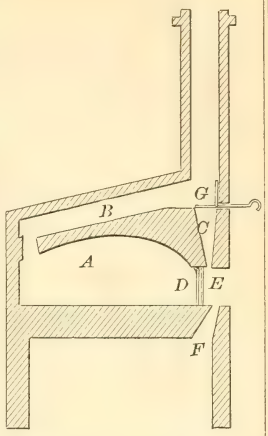
**89711**—J. D. Van Dusen—*Washing Machine.*



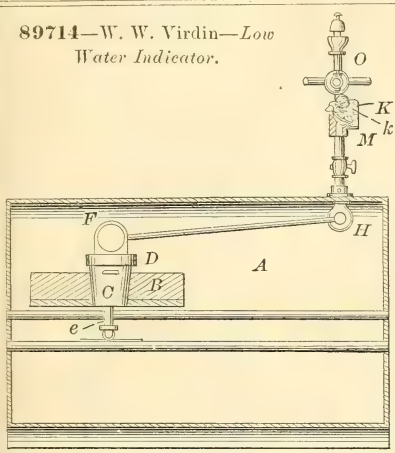
**89712**—H. Vansittart—*Screw Propeller.*

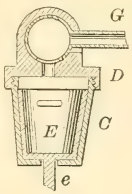


**89713**—J. Vatter—*Oven.*

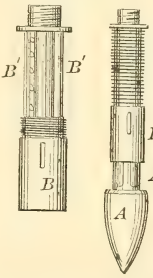



**89714**—W. W. Virdin—*Low Water Indicator.*

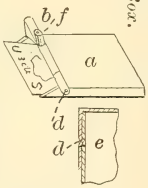


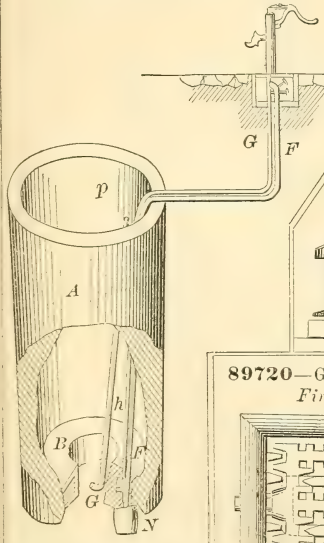

**89718**—D. Weaver—*Drive Well Point.*



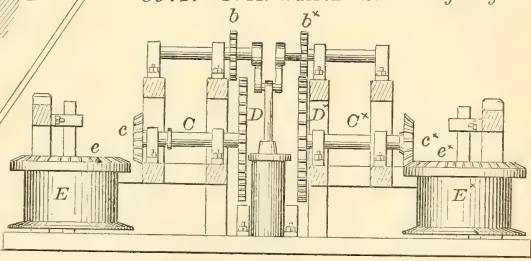

**89719**—H. J. Wickham—*Match Box.*



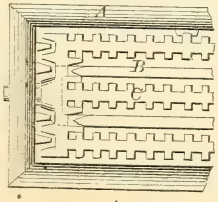

**89716**—J. J. Walker—*Cistern.*

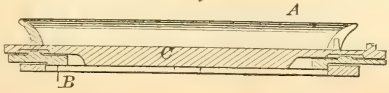



**89717**—P. M. Warren—*Steam Enginery.*

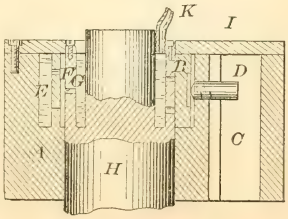



**89720**—G. Williamson—*Fire Grate*

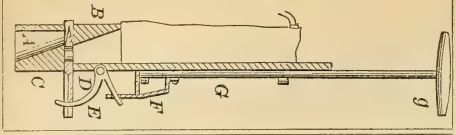


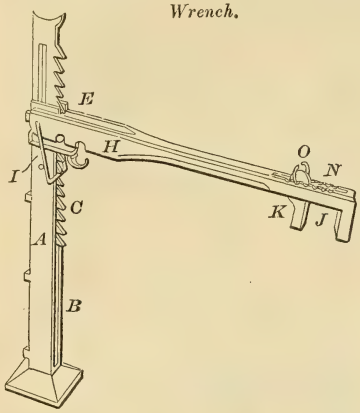

**89721**—J. Williams—*Mill Bush and Spindle.*



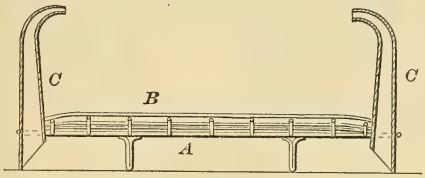
**89722**—A. J. Williams—*Pea Dropper.*



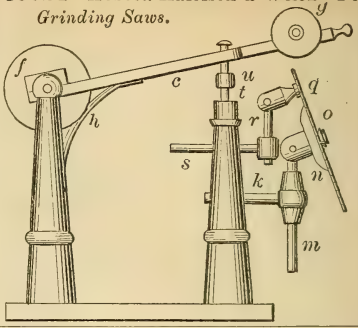

**89723**—R. A. York—*Lifting Jack and Wrench.*



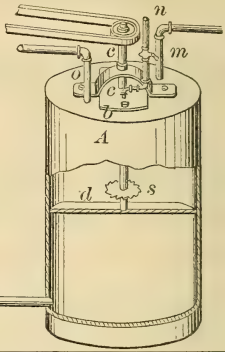

**89726**—C. R. Arnold—*Wash Boiler.*



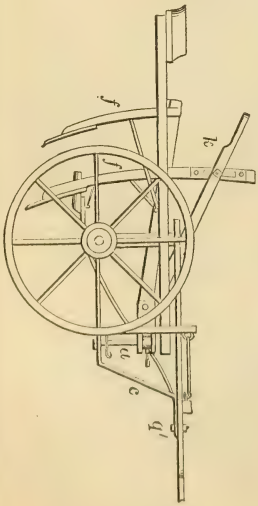

**89724**—Abbott, Harrison & Welch—*For Grinding Saws.*



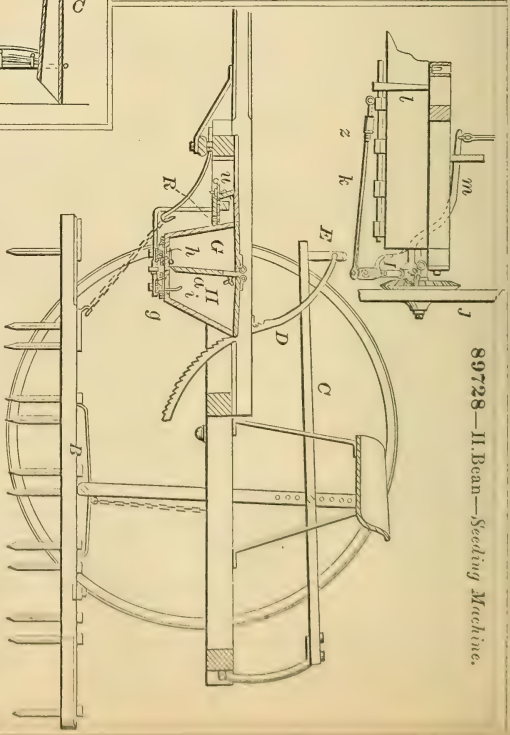

**89725**—T. Barfield—*For Preventing Incrustation in Boilers.*



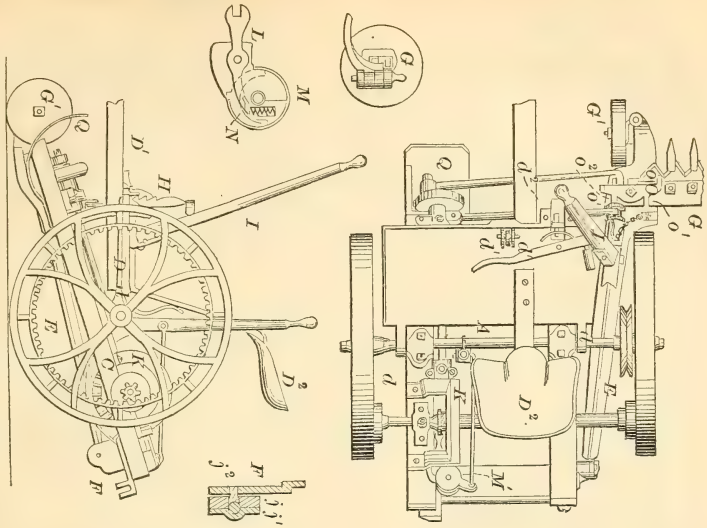

**89729**—Bell & Bronson—*Corn Cultivator.*



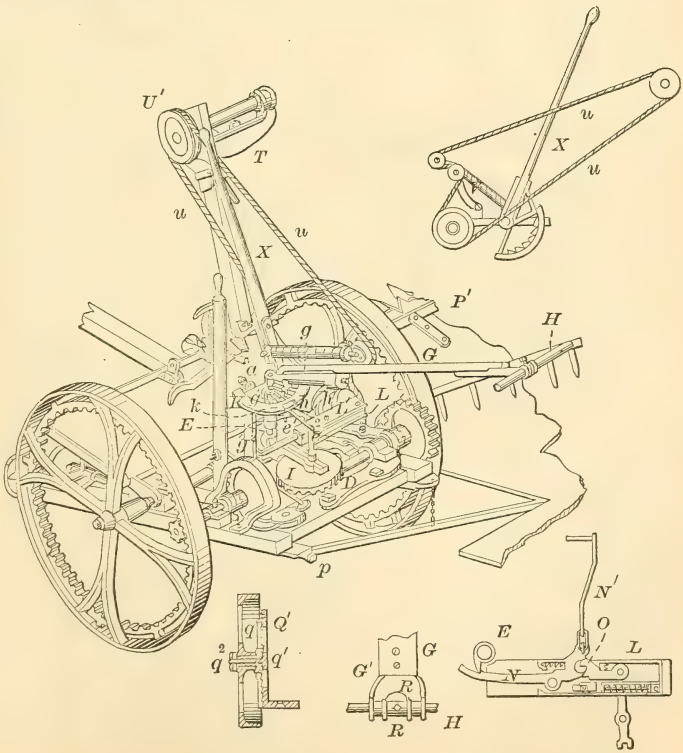

**89728**—H. Bean—*Seeding Machine.*



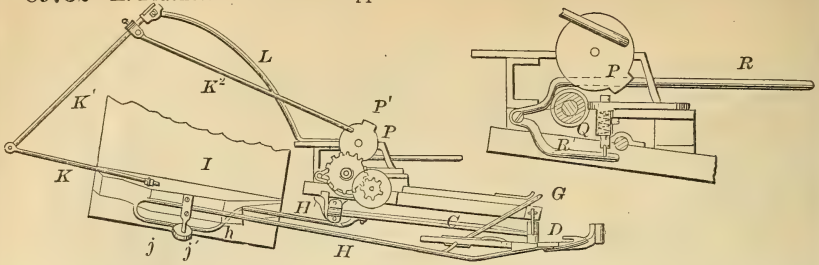
**89730**—H. Brackett—*Harvester.*



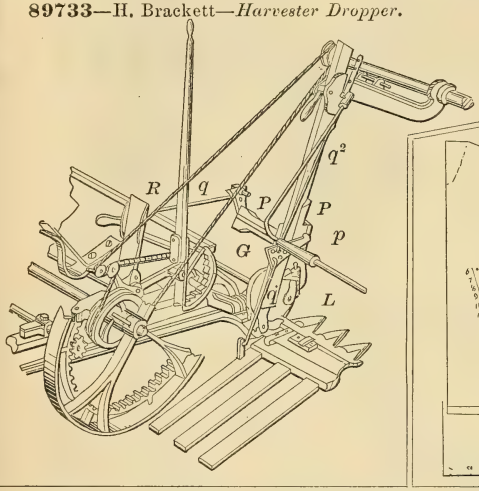

**89731**—H. Brackett—*Harvester Rake.*



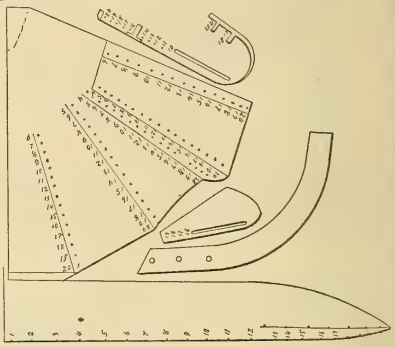
**89732**—H. Brackett—*Harvester Dropper.*



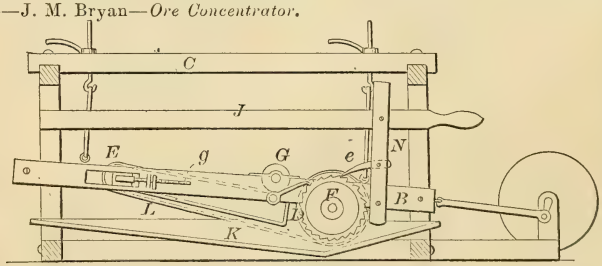

**89733**—H. Brackett—*Harvester Dropper.*



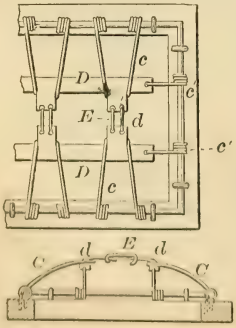

**89735**—H. M. Burrows—*For Patterns and Measuring for Ladies' Dresses.*



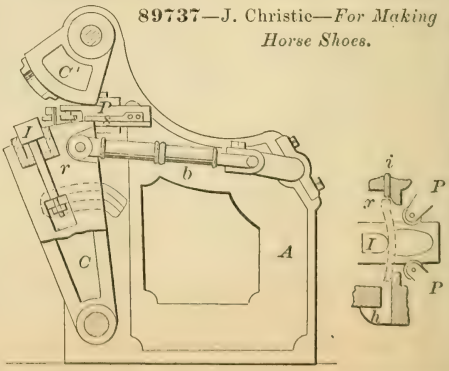
**89734**—J. M. Bryan—*Ore Concentrator.*



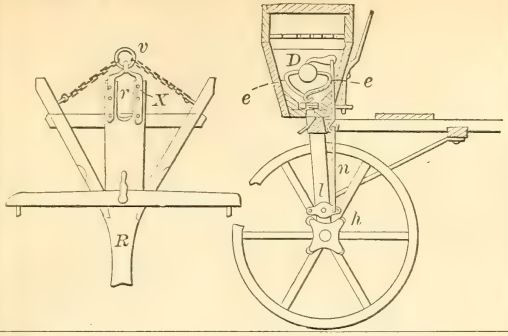

**89736**—W. Carr—*Spring Seat.*



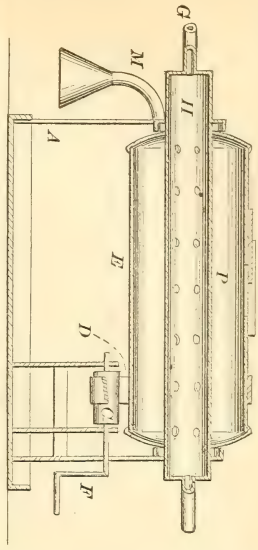

**89737**—J. Christie—*For Making Horse Shoes.*



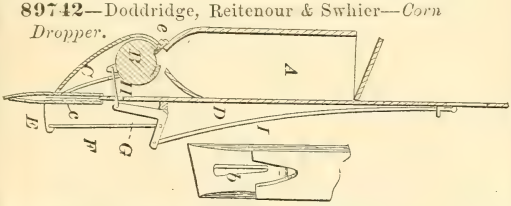
**89739**—G. H. Crocker—*Seed Sower.*



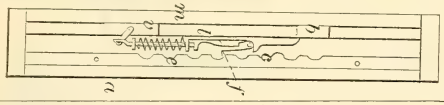

**89740**—J. Cyester—*Feather Renovator.*



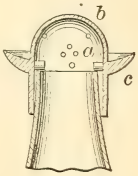

**89742**—Doddridge, Reitenour & Swhier—*Corn Dropper.*



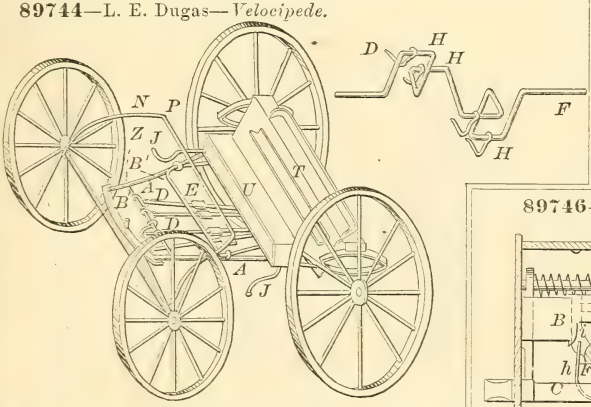

**89741**—A. Davis—*Sash Holder.*



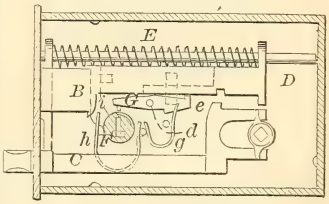

**89743**—J. G. Dreyfus—*Lamp Chimney Cap.*



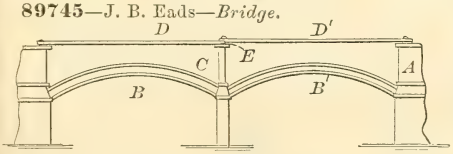

**89744**—L. E. Dugas—*Velocipede.*

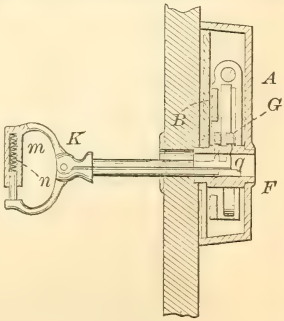



**89746**—J. Ebling—*Lock.*

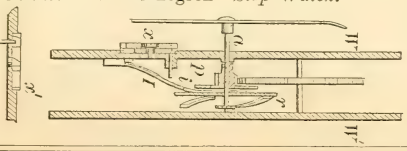



**89745**—J. B. Eads—*Bridge.*

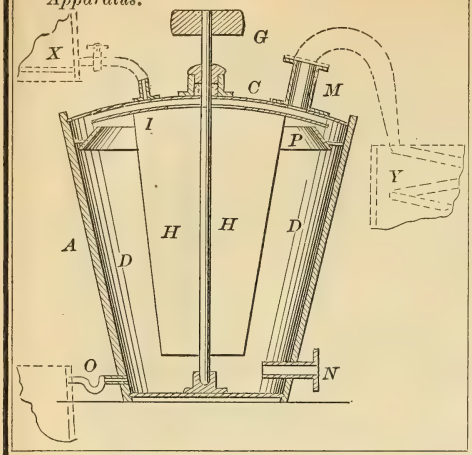


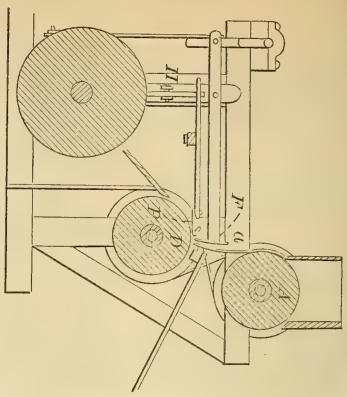

**89747**—H R. Ekegrén—*Stop Watch.*



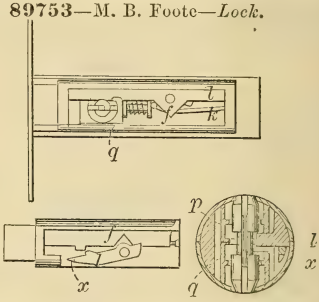
**89749**—C. L. Fleischmann—*Distilling Apparatus.*



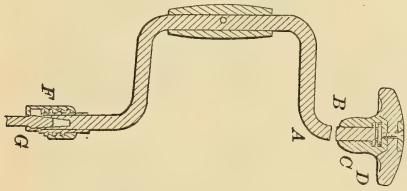

**89751**—C. L. Fleischmann—*Cotton Gin.*



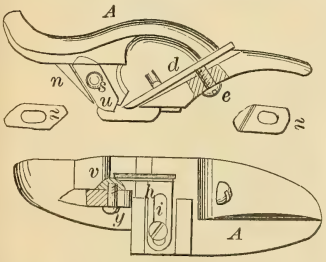

**89753**—M. B. Foote—*Lock.*



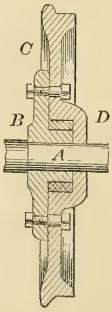

**89755**—D. P. Foster—*Bit Stock.*



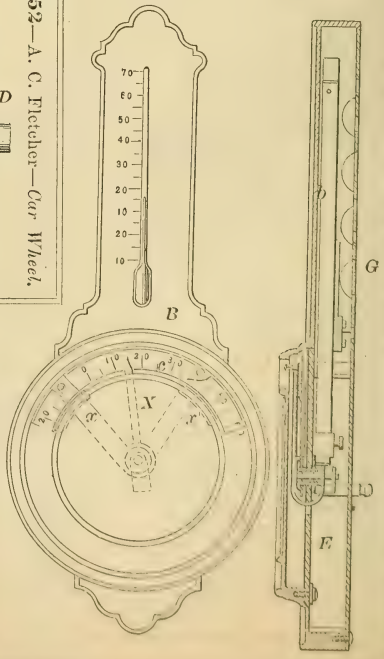

**89754**—P. S. Foster—*Edge-Plane for Boots and Shoes.*



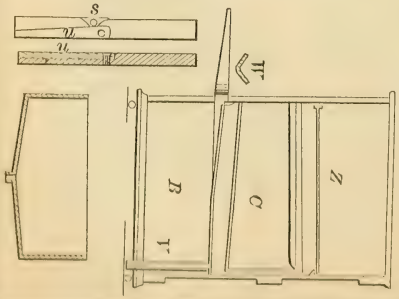

**89752**—A. C. Fletcher—*Car Wheel.*



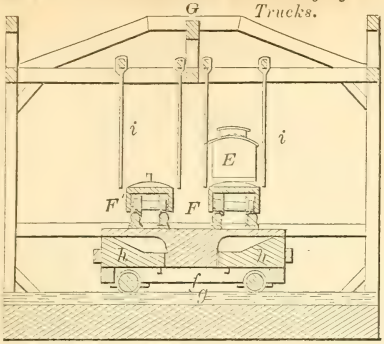

**89757**—Fournier & Lemaire—*Temperature Alarm.*



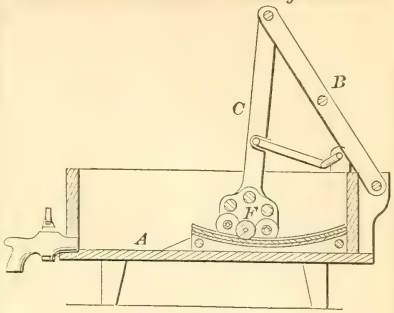

**89756**—G. A. Fountain—*Refrigerator.*



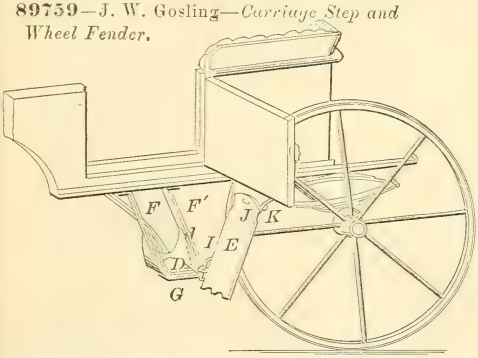
**89758**—S. L. Fremont—*For Changing Car Trucks.*



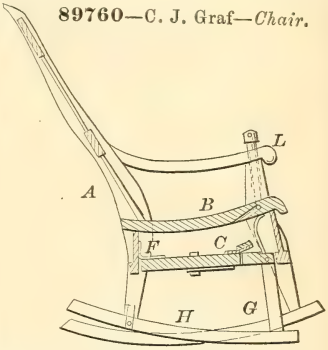

**89761**—A. Havens—*Washing Machine.*



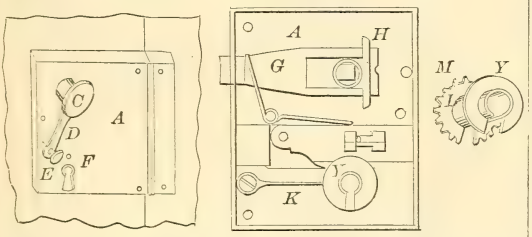

**89759**—J. W. Gosling—*Carriage Step and Wheel Fender.*



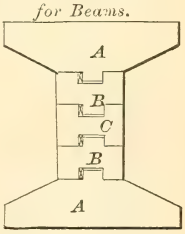

**89760**—C. J. Graf—*Chair.*



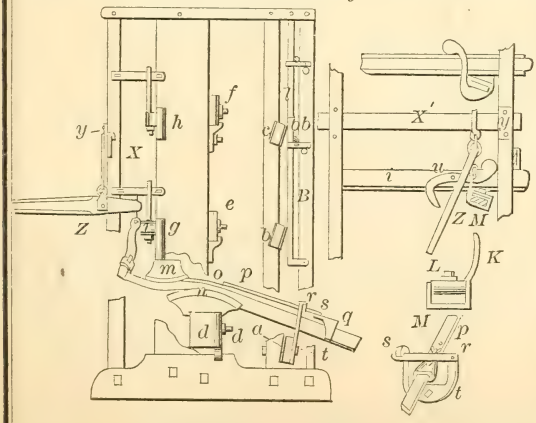

**89762**—E. Herbster—*Alarm Lock.*



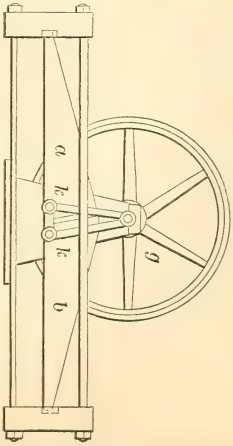

**89763**—C. Hewitt—*Pile for Beams.*



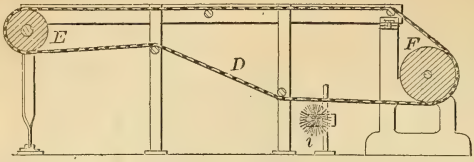

**89764**—W. Heylman—*For Bending Plow Handles.*



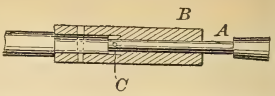

**89765**—A. Hitchcock—*Rock Breaker.*



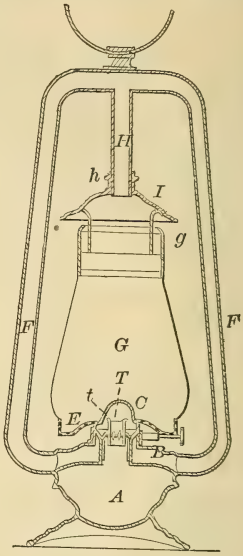
**89766**—C. Hofmann—*Paper Machine.*



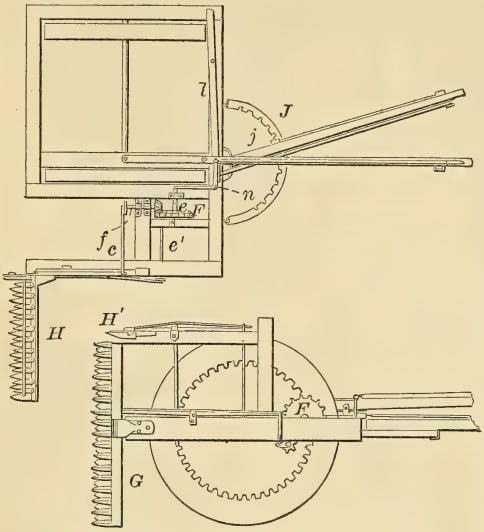

**89767**—D. B. Hunt—*Car Axle.*



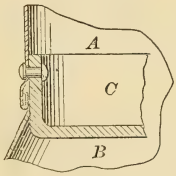

**89770**—J. H. Irwin—*Lantern.*



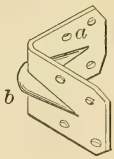

**89769**—S. T. Hyde—*Hedge Trimmer.*



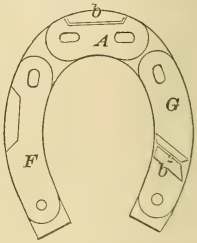

**89771**—J. W. Jarboe—*Coal Scuttle.*



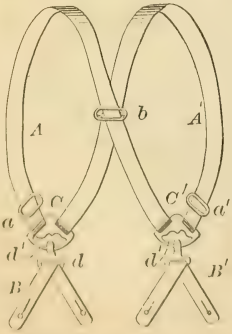

**89773**—W. S. Jessup—*Trunk Clamp.*



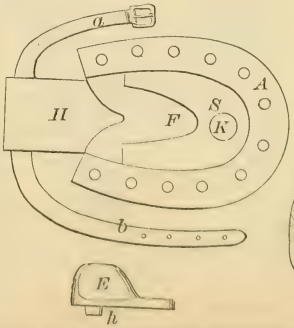

**89774**—J. Johnson—*Horse Shoe.*

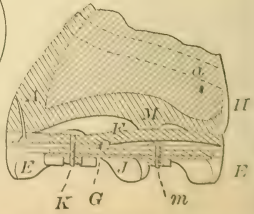



**89772**—E. Jennings, Jr.—*Suspenders.*

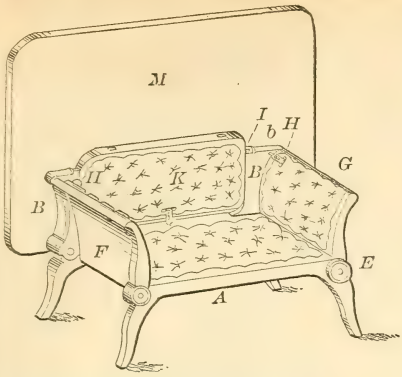



**89775**—J. Johnson—*Horse Shoe.*

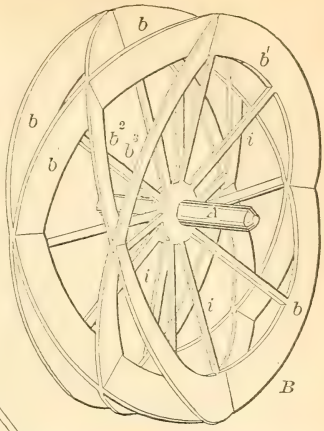


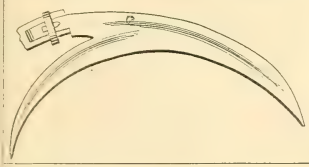
**89776**—W. B. Jones—*Sofa, Lounge and Table.*



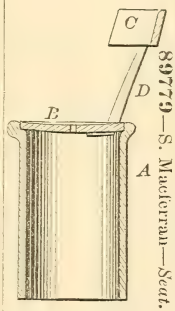

**89777**—A. C. Loud—*Propeller.*



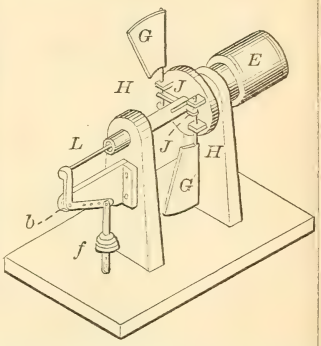

**89778**—W. Lowden—*Scythe*



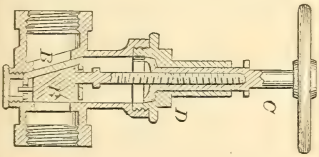
**89779**—S. Macferran—*Seat.*



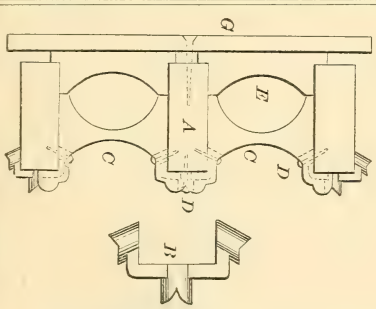

**89780**—J. A. Marden—*Governor.*



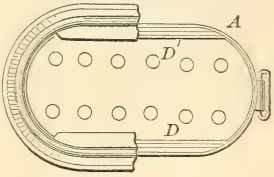

**89781**—B. G. Martin—*Stop Valve*

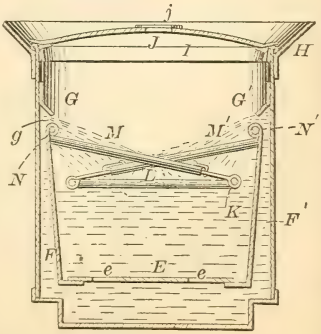



**89782**—E. May—*Fireproof Building.*

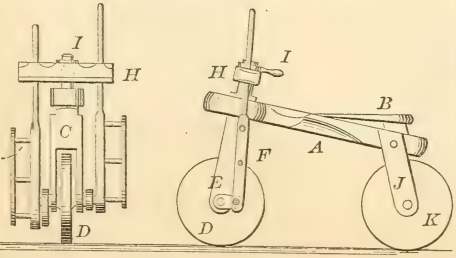



**89784**—F. W. Miller—*Wash Boiler.*

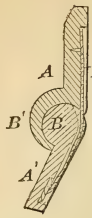


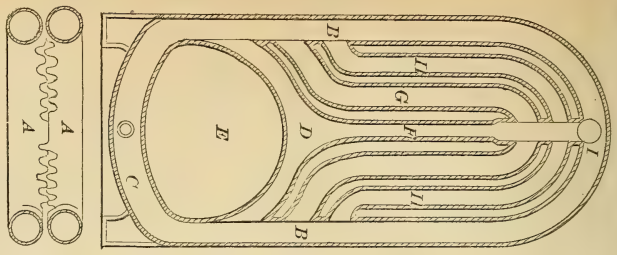

**89783**—S. T. McDougall—*Velocipede.*



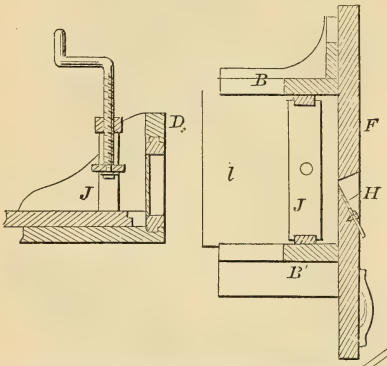
**89785**—W. Miller—*Weather Strip.*



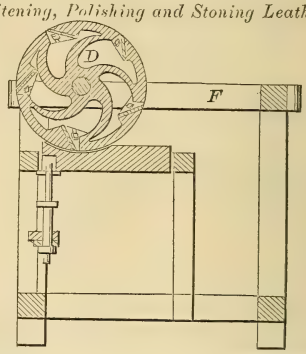

**89786**—J H. Mills—*Steam Generator.*



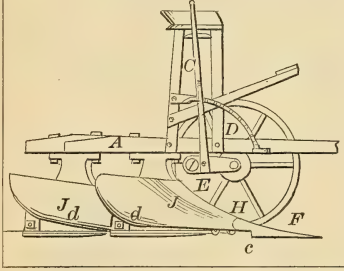

**89787**—Mundy & Hoffman—*Meat Cutter.*



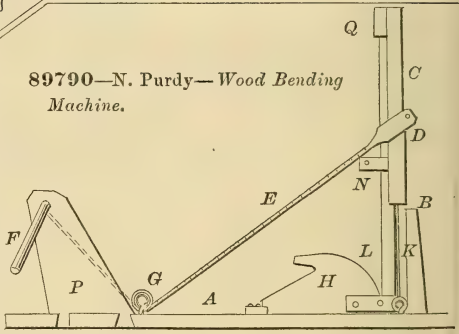

**89789**—A. W. Pratt—*For Buffing Whitening, Polishing and Stoning Leather.*



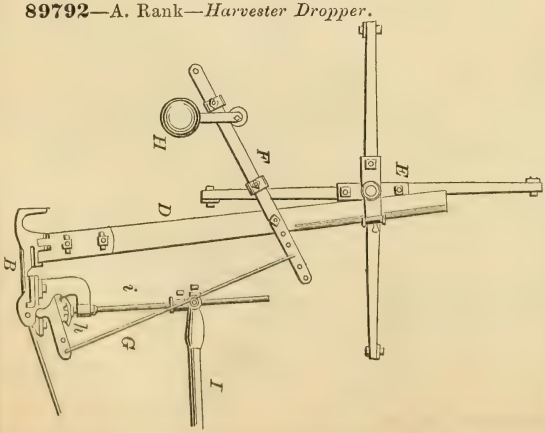

**89788**—M Murphy—*Gang Plow.*



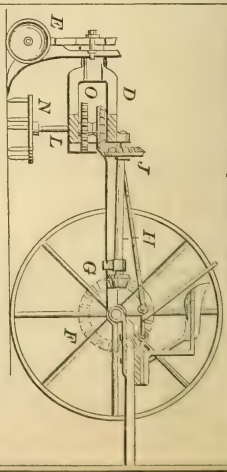

**89790**—N. Purdy—*Wood Bending Machine.*



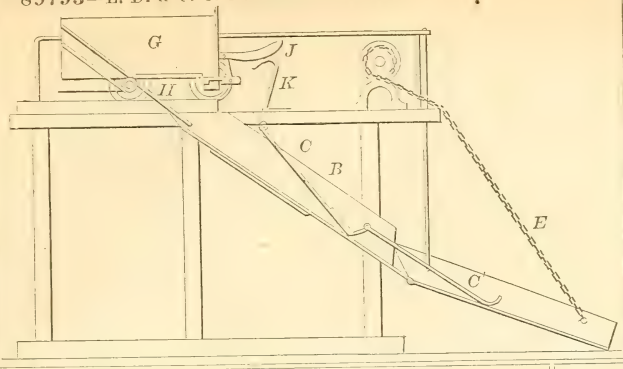

**89792**—A. Rank—*Harvester Dropper.*



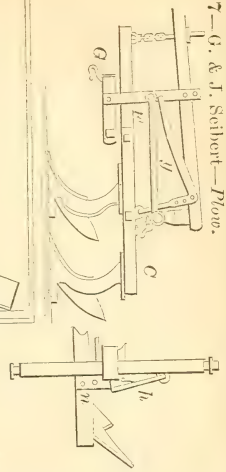

**89791**—J. A. Quick—*Cultivator.*



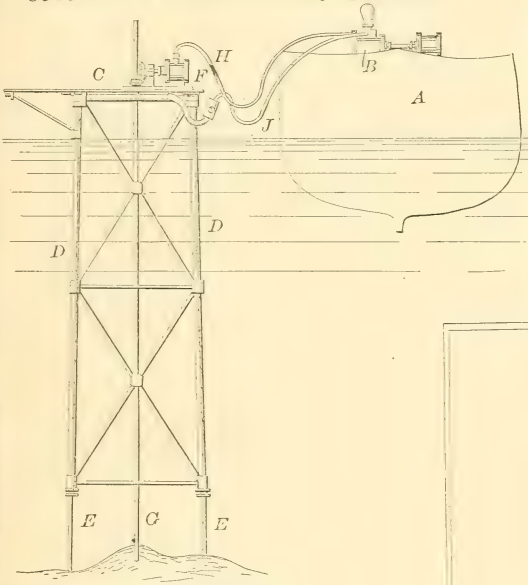
89793—L. D. & C. C. Roberts—*Coal Chute.*



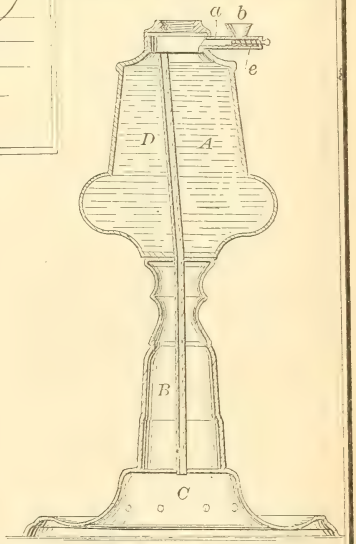

89797—G. & J. Seibert—*Plow.*



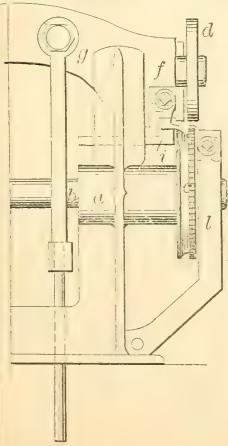

89794—T. F. Rowland—*Drilling Apparatus.*



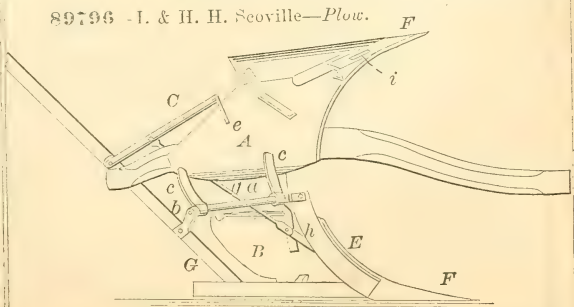

89795—F. Saunders—*Lamp.*



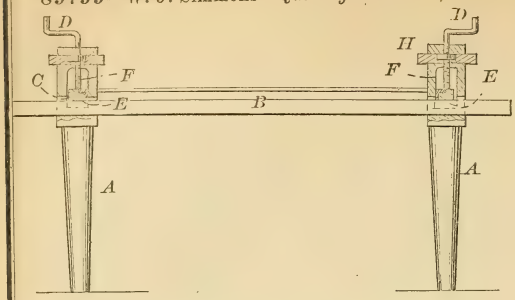

89798—J. B. Sias—*For Shoeing and Ornamenting Soles.*



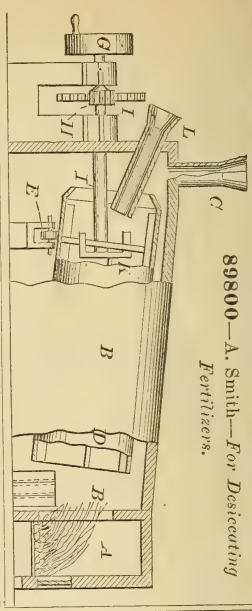

89796—I. & H. H. Scoville—*Plow.*



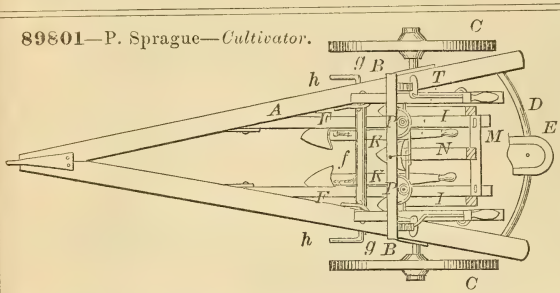
**89799**—W. J. Simmons—*Quilting Frame.*



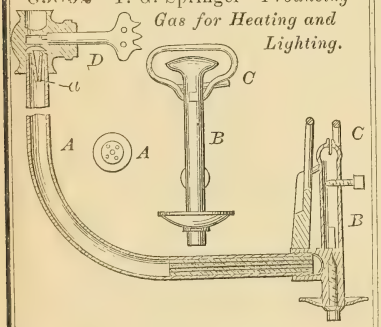

**89800**—A. Smith—*For Desiccating Fertilizers.*



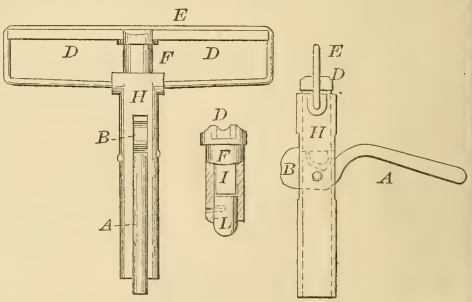

**89801**—P. Sprague—*Cultivator.*



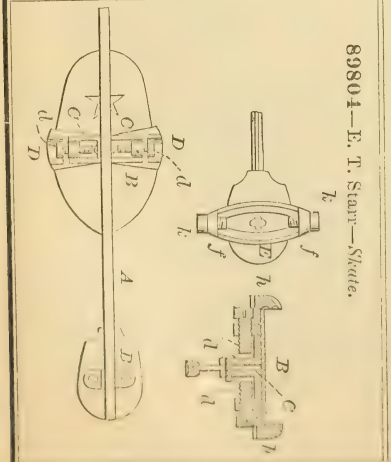

**89802**—T. G. Springer—*Producing Gas for Heating and Lighting.*



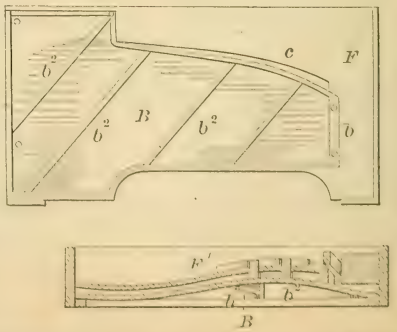

**89803**—G. Stackpole—*Mop Holder.*



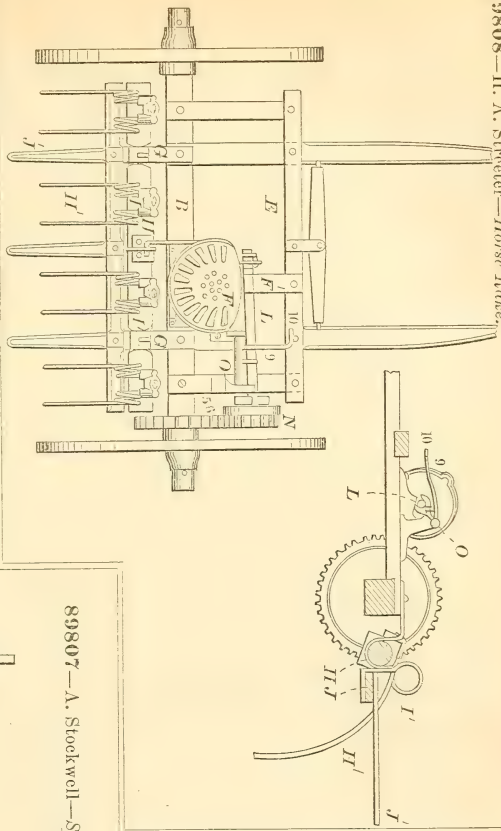

**89804**—E. T. Starr—*Skate.*



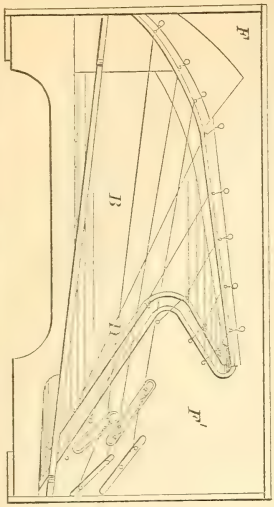

**89806**—D. Stirn—*Piano Forte.*



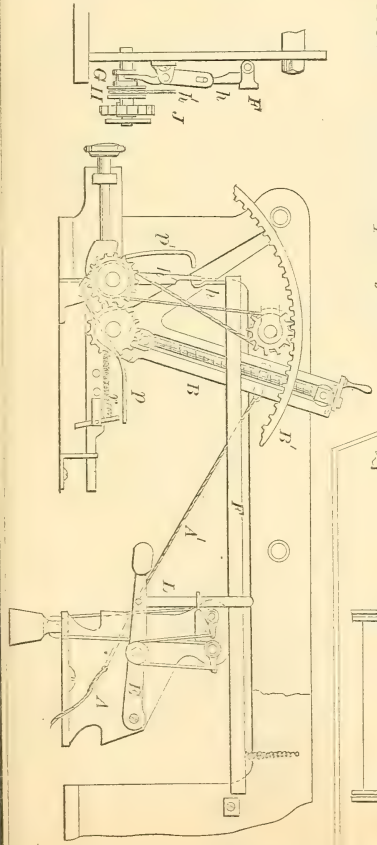
89808—H. A. Streeter—*Horse Rake.*



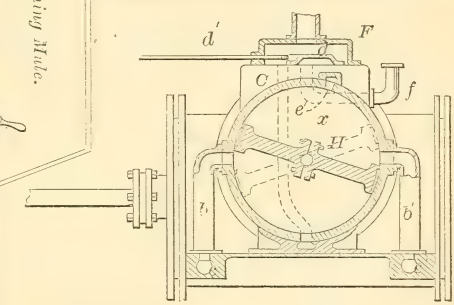
89806—*Continued.*

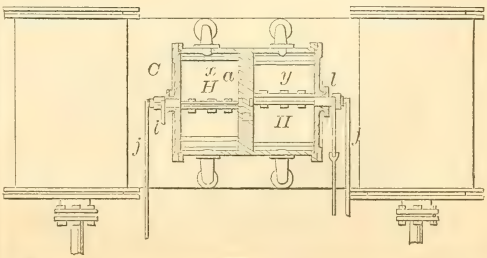


89807—A. Stockwell—*Spinning Mule.*

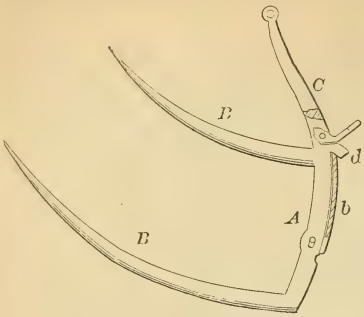


89809—J. S. Stuart—*Locomotive.*

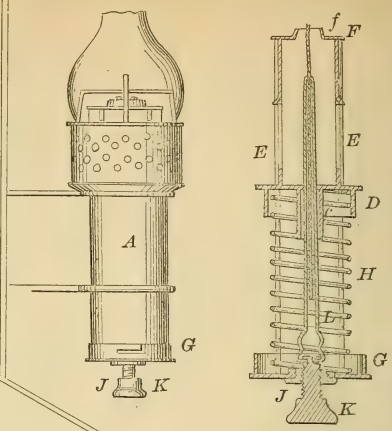




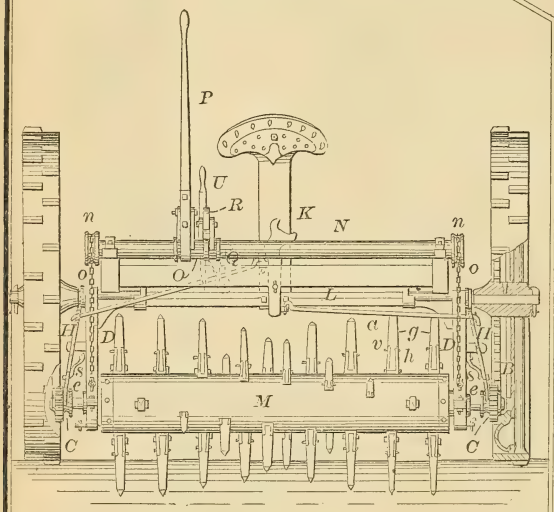
**89810**—J. B. Sweetland—*Horse Hay Fork.*



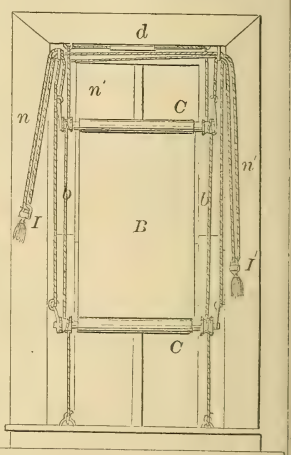

**89811**—F. A. Taber—*Candlestick*

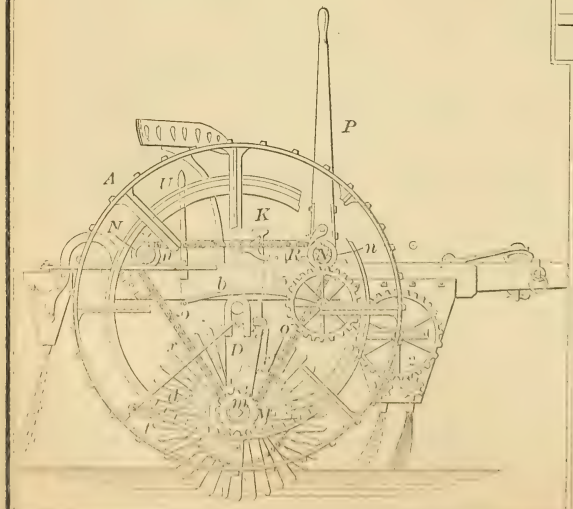



**89812**—A. L. Taveau—*Harrow and Seeder.*

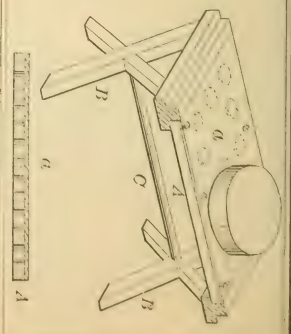



**89813**—J. I. Tay—*For Hanging Window Shades.*

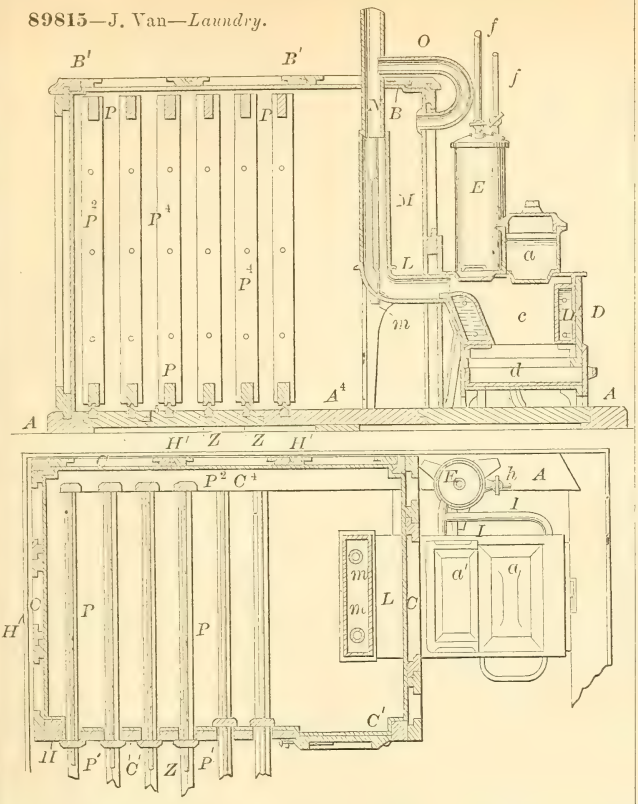


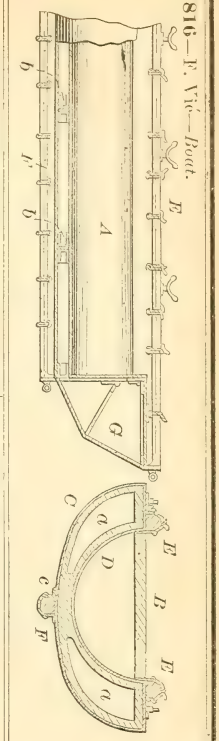

**89814**—A. M Utley—*Cheese Table, Shelving, &c.*



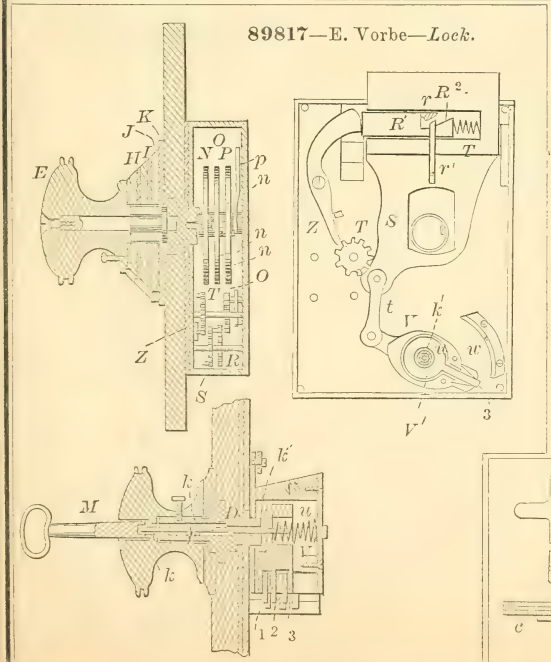
**89815**—J. Van—*Laundry.*



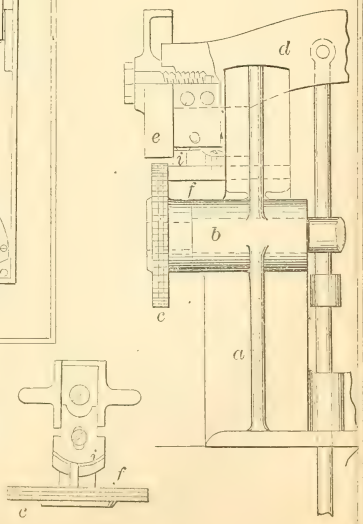
**89816**—F. Vie—*Boat.*



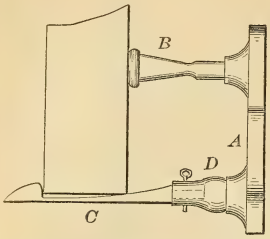
**89817**—E. Vorbe—*Lock.*



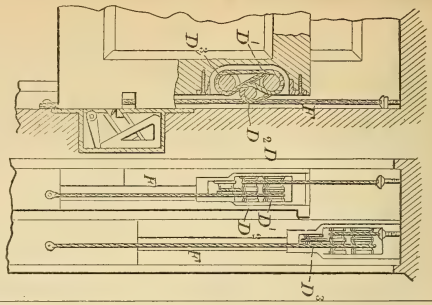
**89818**—H. S. Vrooman—*Sole Channeling and Feather Edging Machine.*



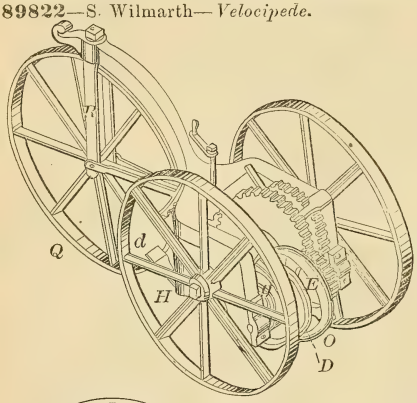
**89819**—S. Wagner—*Door Catch and Cushion.*

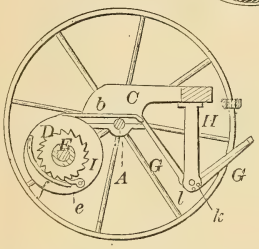



**89821**—P. A. Willson—*Sash Balance.*

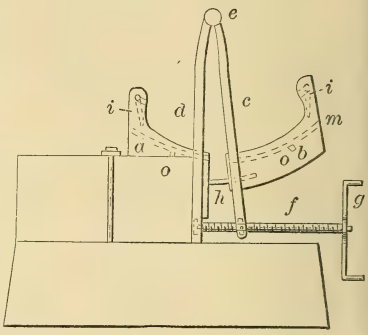



**89822**—S. Wilmarth—*Velocipede.*

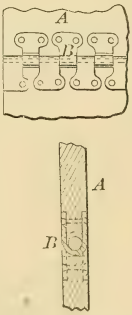


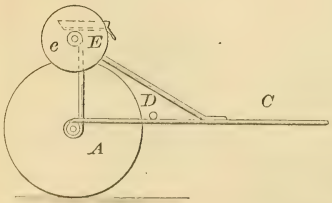

**89823**—A. Winship—*Tire Upsetting Machine.*

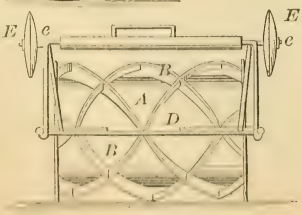



**89820**—B. P. Walker—*Belt Joint.*

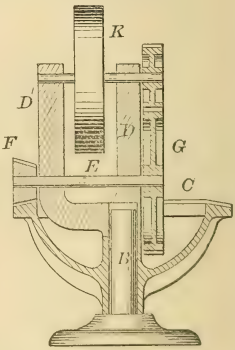



**89824**—R. Wright—*For Cutting Stalks.*

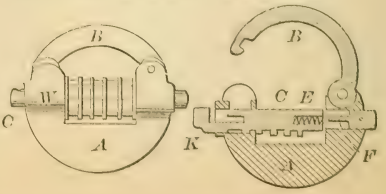


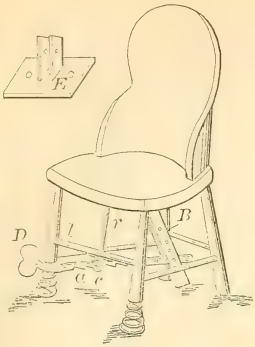

**89825**—J. M. Albertson—*Horse Power.*



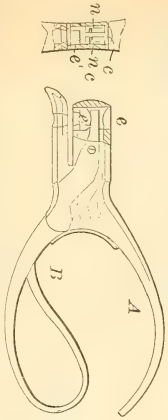

**89826**—H. L. Arnold—*Letter Lock.*



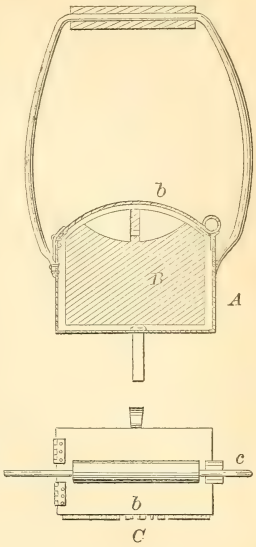
**89827**—Badlam & Lang—*Foot Rest.*



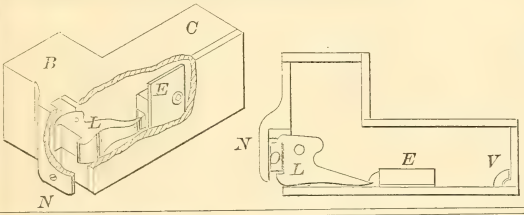

**89828**—J. Chapin—*Ticket Punch.*



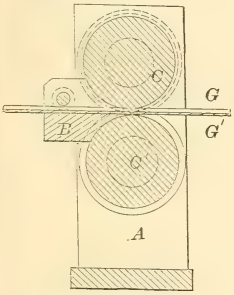

**89829**—J. W. Dodge—*Branding Apparatus.*



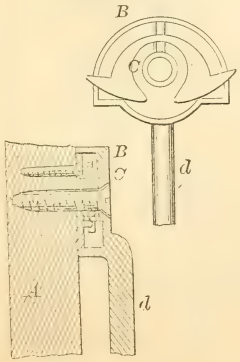

**89830**—L. M. Ham—*Prison Door Lock.*




**89831**—W. Hoffman—*For Rolling and Notching Railroad Rails.*




**89832**—B. Kindblade—*Sash Holder.*




**89834**—G. C. Howard—*Hat Press.*

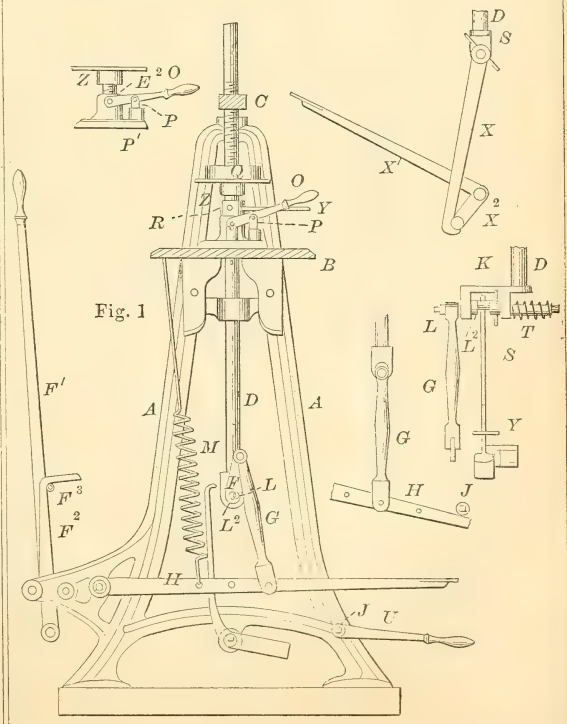
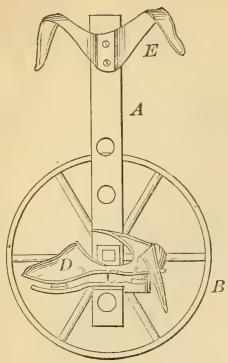
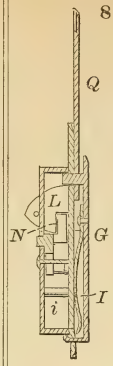


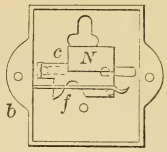

Fig. 1

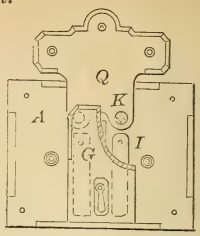
**89833**—T. L. Luders—*Skate.*




**89837**—Z. Walsh—*Lock.*

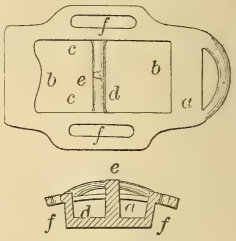


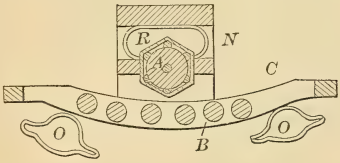




**89835**—V. Price—*Carriage Wheel.*

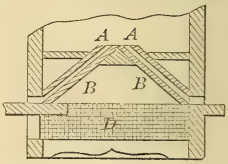
**89836**—W. M. K. Thornton—*Buckle.*



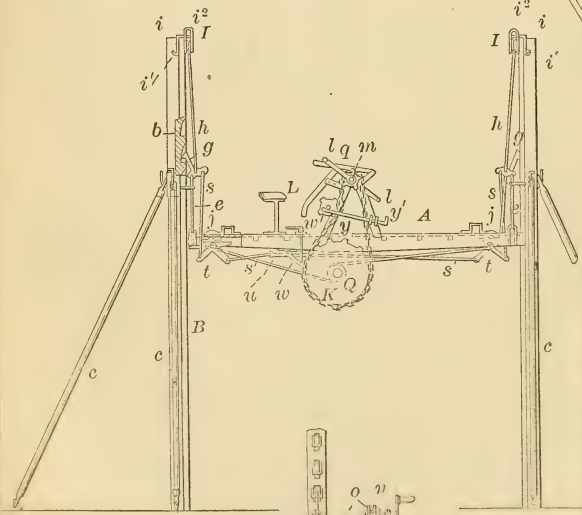

**89838**—J. Weaver, Jr.—*Washing Machine.*



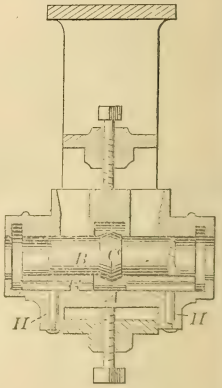

**89841**—T. Atkinson—*Beehive.*

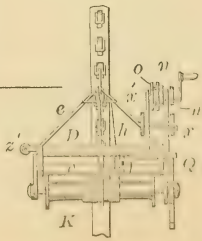



**89840**—G. Adams, Jr.—*Scaffold.*

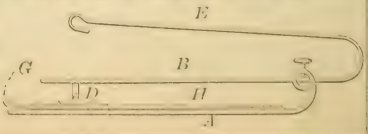



**89839**—R. Sibley—*Journal Box.*

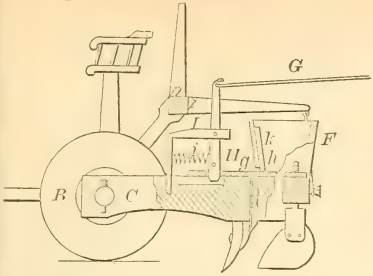


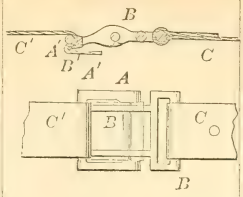

**89842**—I. W. Barnum—*Tuck Creaser.*



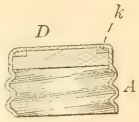
**89843**—E. Barto—*Corn Marker, Planter and Cultivator.*



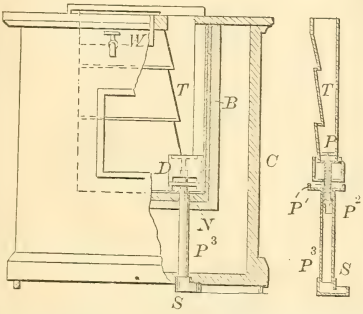

**89844**—G. N. Beard *Cotton Bale Tie.*



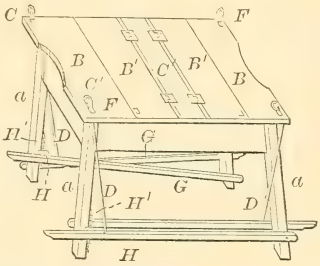

**89845**—L. R. Boyd—*Cap for Jars.*



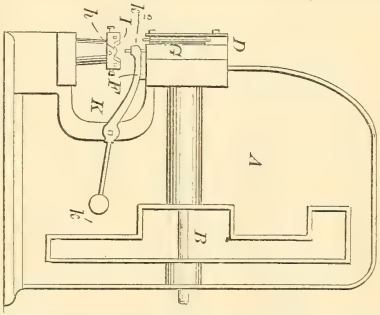

**89846**—H. R. Bozorth—*Refrigerator.*



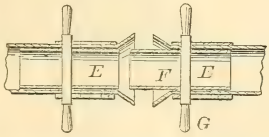

**89850**—D. L. Cady—*Sheep Shearing Table.*



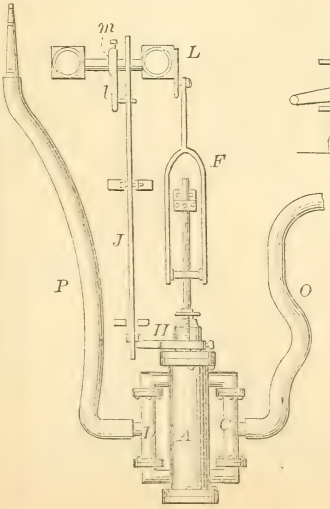

**89851**—W. Churchill—*Punching Machine.*

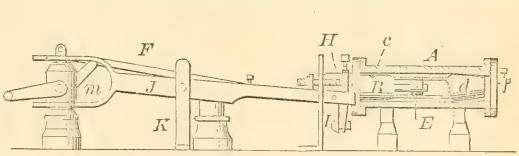



**89848**—J. G. Breslin—*Spark Conveyor.*

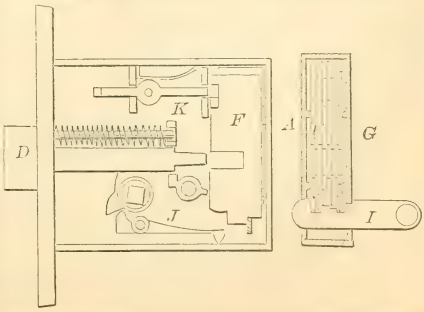



**89849**—S. Brillinger—*Pump.*

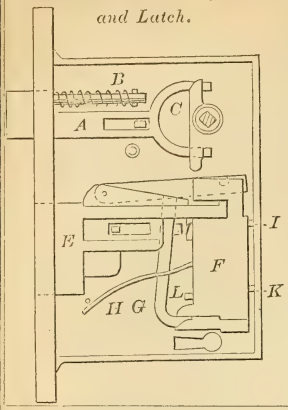


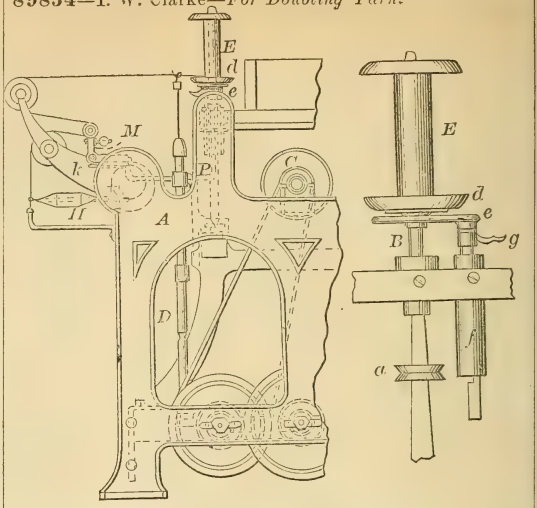

**89852**—G. W. Cilley—*Lock and Latch.*



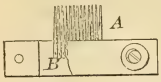
**89853**—G. W. Cilley—*Lock and Latch.*



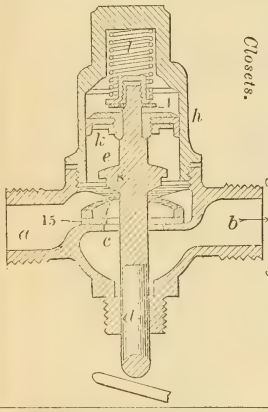

**89854**—I. W. Clarke—*For Doubling Yarn.*



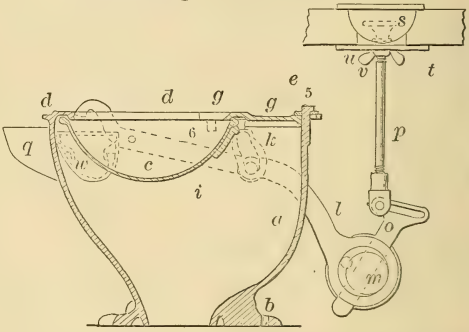

**89855**—A. Couturier—*Vegetable Fibre to Imitate Hair.*



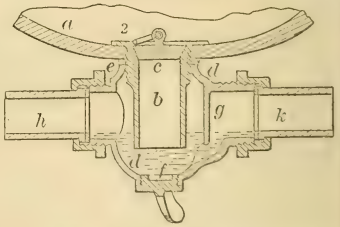

**89856**—H. H. Craigie—*Cock for Water Closets.*



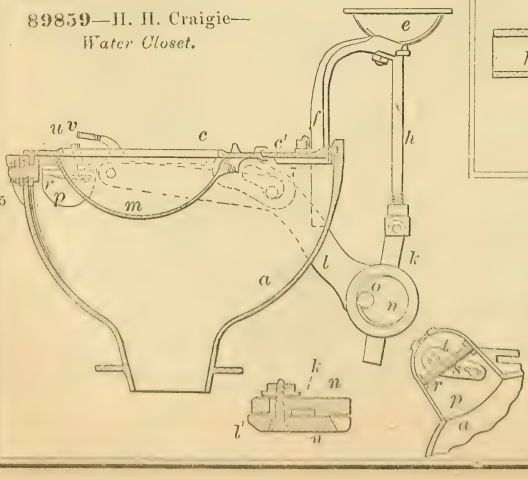

**89857**—H. H. Craigie—*Water Closet.*



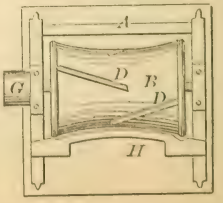

**89858**—H. H. Craigie—*Waste Trap for Wash Basins.*



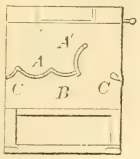

**89859**—H. H. Craigie—*Water Closet.*



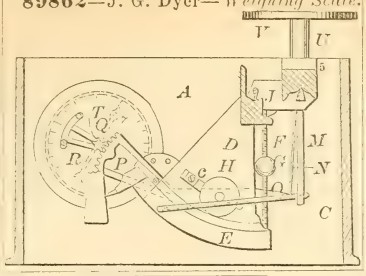

**89860**—H. A. Crossley—*Stave Jointer.*



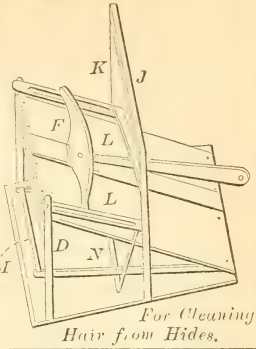
**89861**—W. Doyle—*Stove Lid and Damper.*




**89862**—J. G. Dyer—*Weighing Scale.*

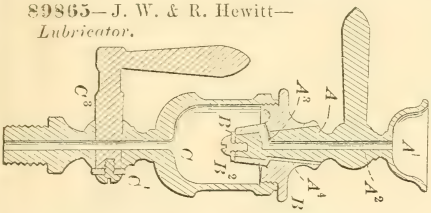



**89864**—A. Hasbrouck—

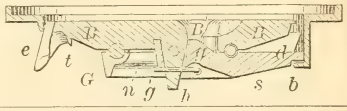



*For Cleaning Hair from Hides.*

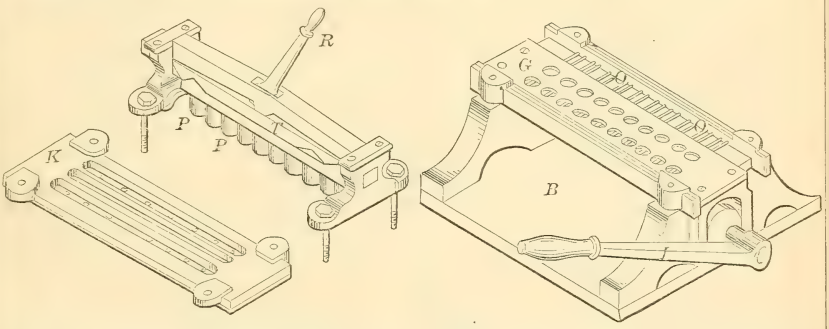
**89865**—J. W. & R. Hewitt—*Lubricator.*



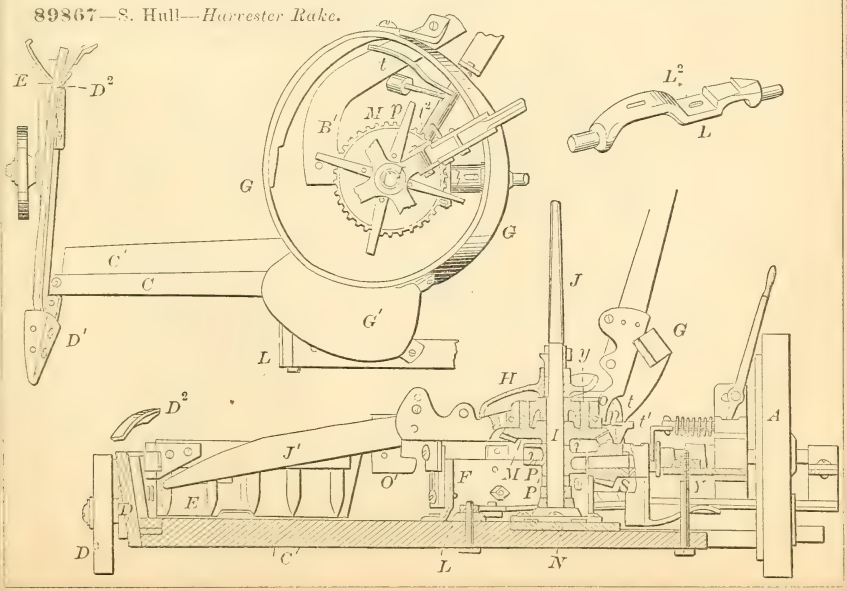

**89863**—W. Hailes—*Stove Grate.*



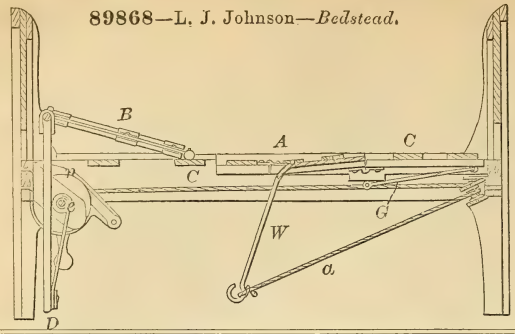

**89866**—P. L. Higley—*For Moulding Disks, Rivets, &c.*

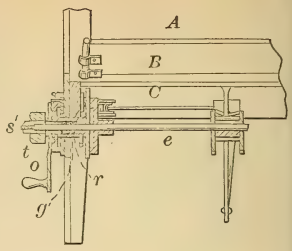



**89867**—S. Hull—*Harvester Rake.*

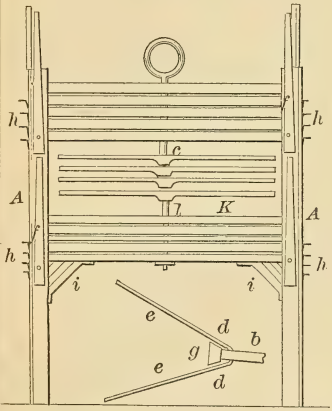


**89868**—L. J. Johnson—*Bedstead.*

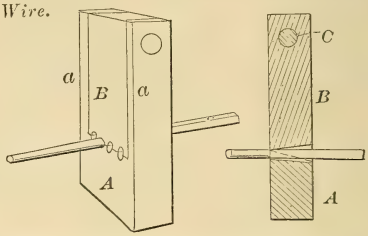


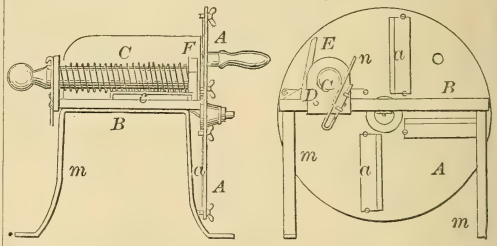

**89870**—G. King—*Clothes Dryer.*



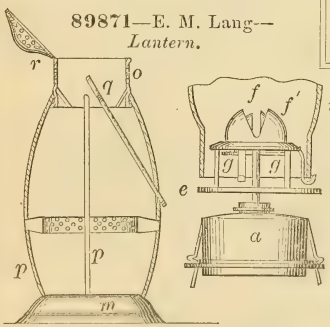

**89869**—R. Kent—*Die for Drawing and Reducing Wire.*




**89873**—Leman & Beals—*Vegetable Slicer.*

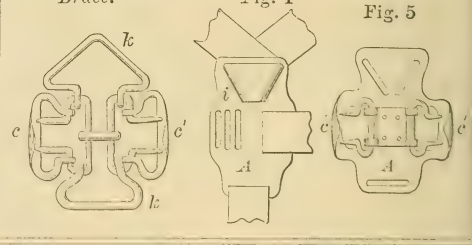



**89871**—E. M. Lang—*Lantern.*

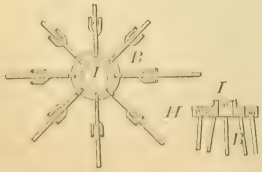



**89872**—H. B. Leach—*Suspender and Shoulder Brace.*

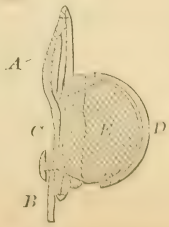
Fig. 4 Fig. 5



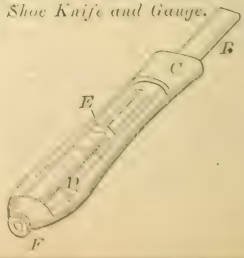

**89874**—J. McAuliffe—*Umbrella.*



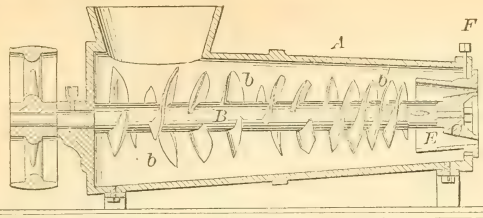

**89875**—J. L. McAlemy—*Truss.*

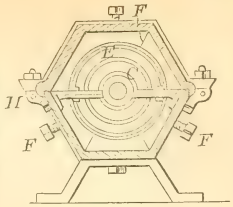



**89877**—R. R. McDonald—*Shoe Knife and Gauge.*

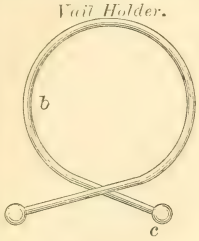


**89878**—J. C. McKenzie—*Tile Machine.*

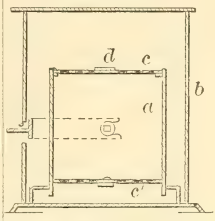


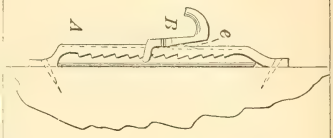

**89879**—S. M. Meyenberg—*Vail Holder.*



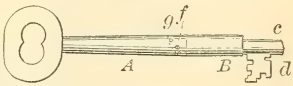

**89880**—G. Moody—*Stove Grate.*



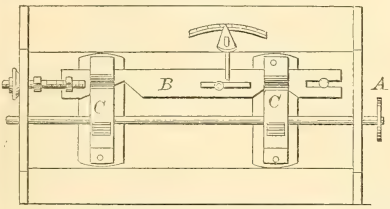

**89883**—G. W. Nell—*Curtain Fixture.*



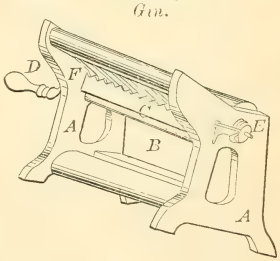

**89886**—E. Parker—*Key.*



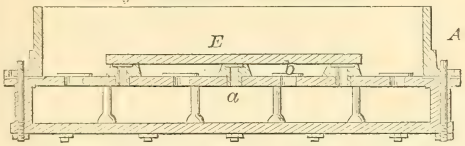

**89882**—W. H. Nauman—*Seed Drill.*



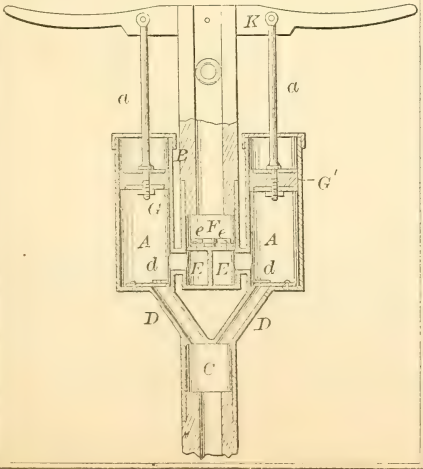
**89890**—C. G. Sargent—*Cotton Gin.*



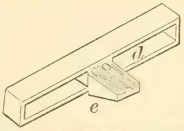

**89884**—R. Norris, Jr.—*For Hardening and Washing "Ransome Concrete Stone."*



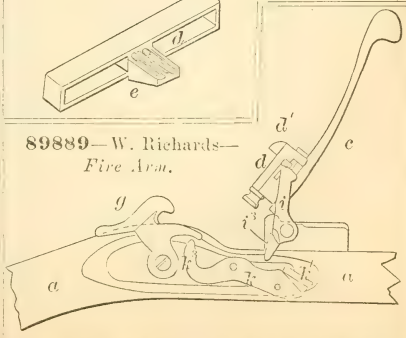

**89885**—D. C. Owen—*Pump*



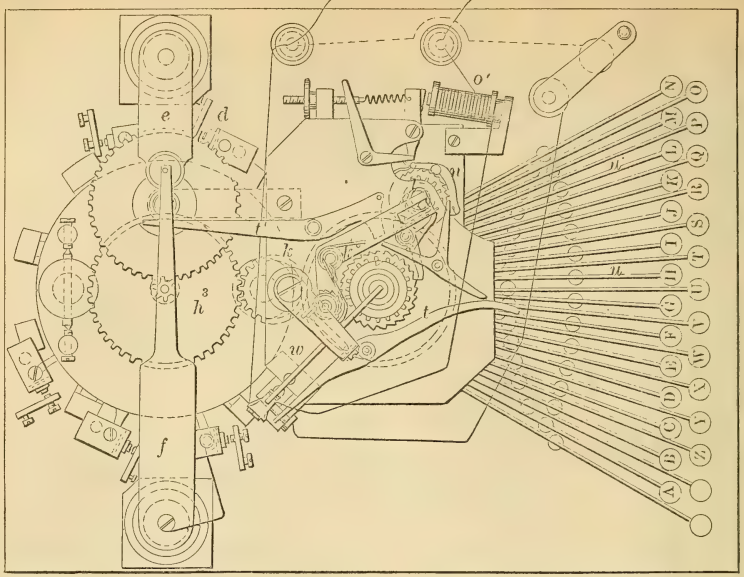

**89888**—J. Reynolds—*Grate Bar.*

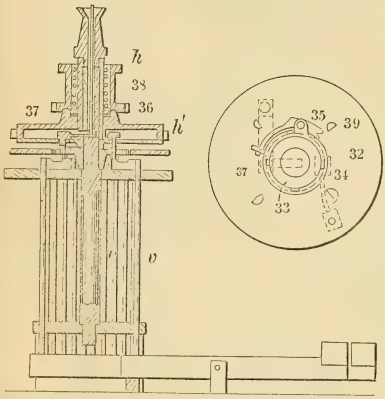



**89889**—W. Richards—*Fire Arm.*

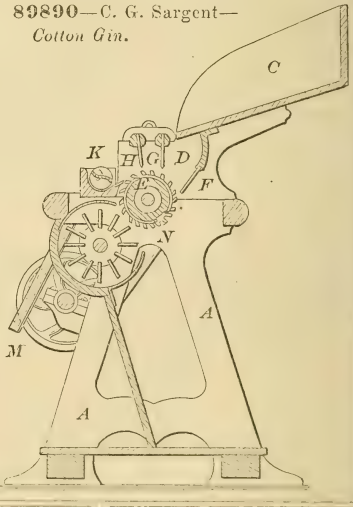


89887—G. M. Phelps—*Printing Telegraph.*




89890—C. G. Sargent—*Cotton Gin.*




89892—J. & J. Seeberger—*Pump.*

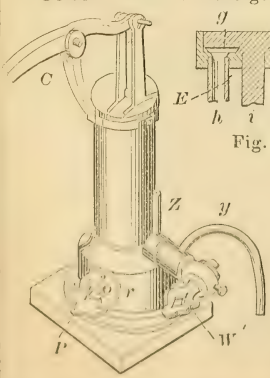
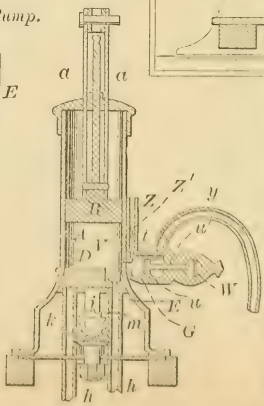
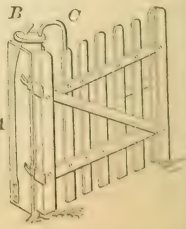


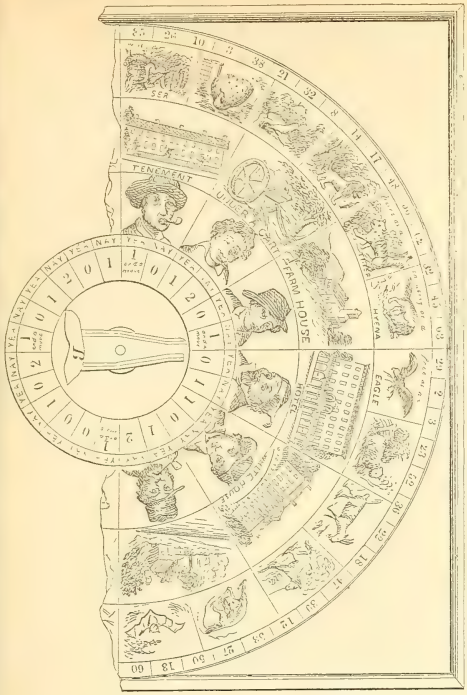

Fig. 6



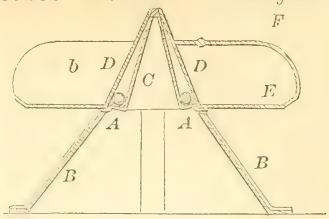

89893—H. S. Shisler—*Gate Fastener.*



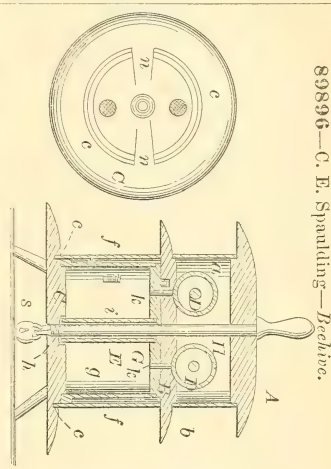
**89894**—A. W. Smith—*Parlor Game.*



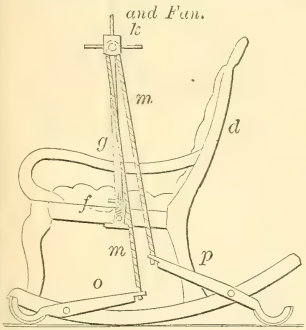

**89895**—E. J. Smith—*Revolving Bin.*



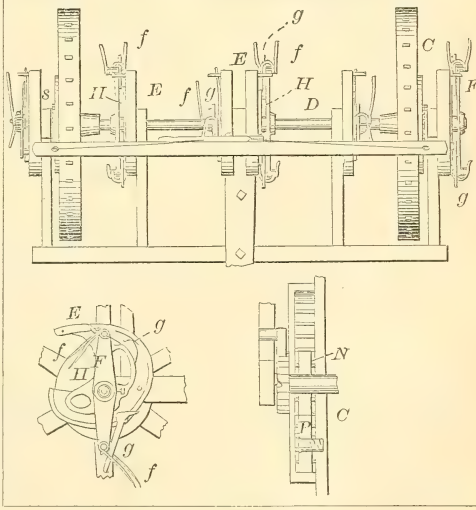

**89896**—C. E. Spaulding—*Beehive.*



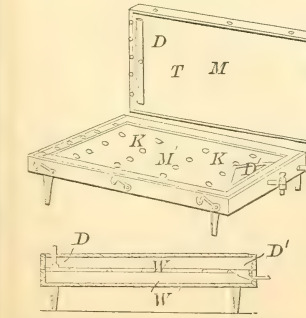

**89897**—M. Stiefenhofer—*Chair and Fan.*



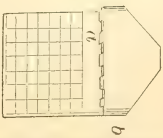

**89899**—J. F. Thomas—*Hay Spreader.*



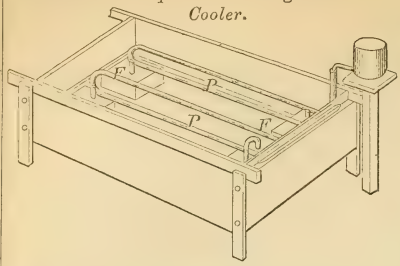

**89900**—A. Thompson—*Milk Cooler.*



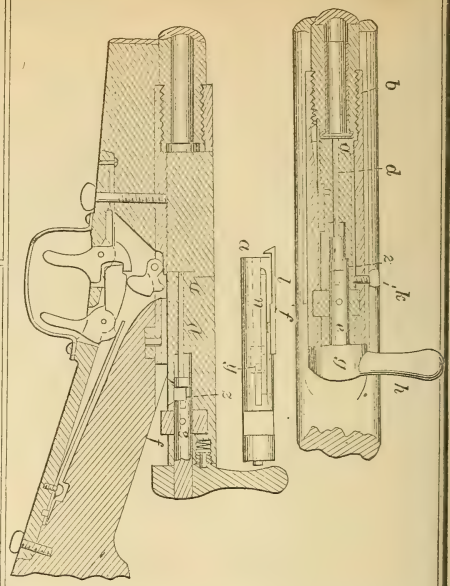

**89898**—J. F. Tapley—*Paper Fastener*



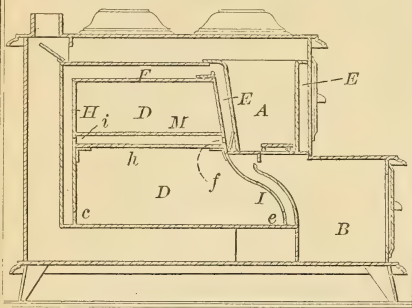
**89901**—Thompson & Darling—*Milk Cooler.*



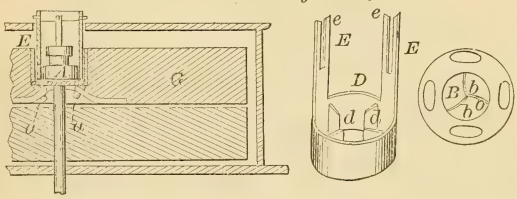

**89902**—S. F. Van Choate—*Fire Arm.*



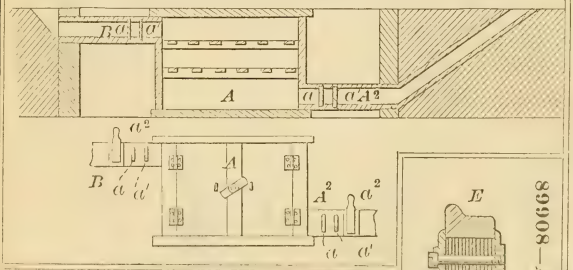

**89903**—T. B. Walker—*Stove.*



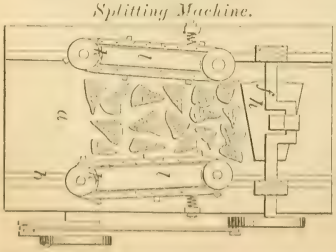

**89904**—M. Weaver—*Feed Regulater for Mills.*



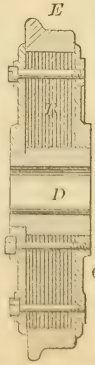

**89905**—W. Wellington—*Ventilator and Refrigerator.*



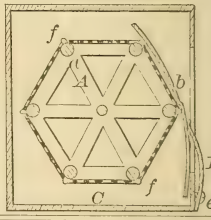

**89906**—W. L. Williams—*Wood Splitting Machine.*



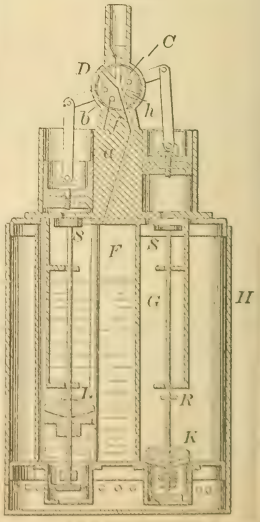

**89908**—Allen & Kimball—*Car Wheel.*



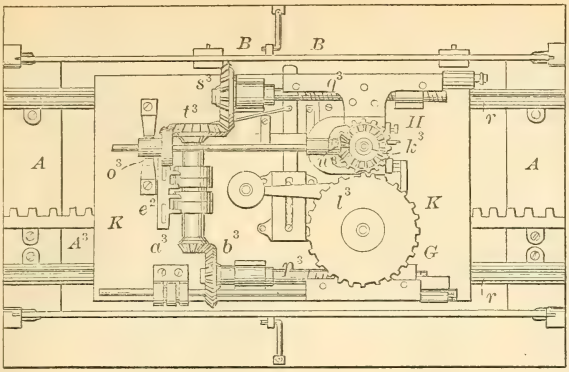

**89907**—Allen & Stoddard—*Flour Bolt.*

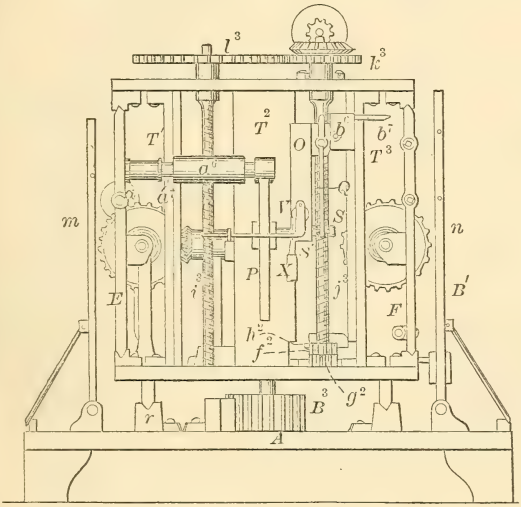


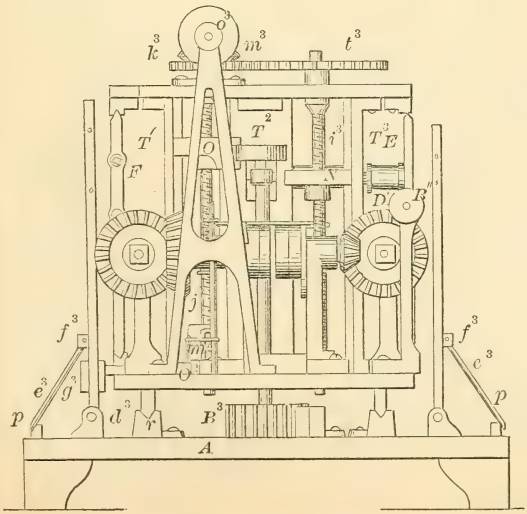

**89909**—J. A. Bailey *Pump.*



**89911**—V. W. Blanchard—*For Carving.*

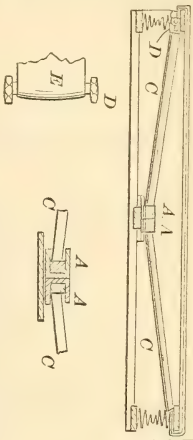




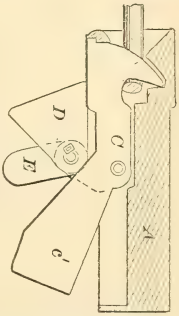


**89910**—O. H. Bandisch—*Explosive Compound.*

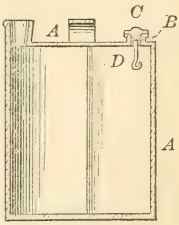
**89912**—Boom & Bell—*Bed Bottom.*



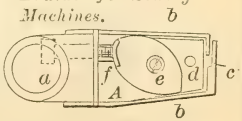
**89913**—A. Branshaw—*Car Coupling.*



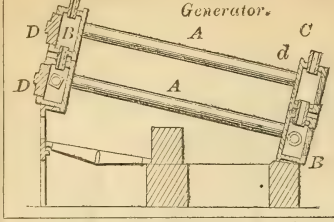
**89914**—T. W. Burger—*Vent for Cans.*



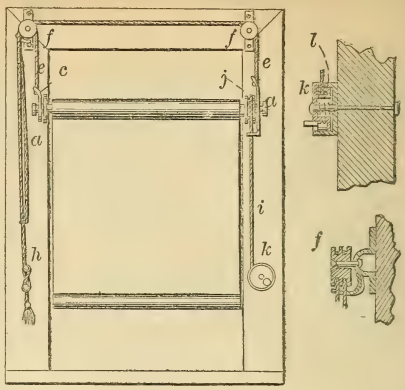
**89915**—D. C. Chester—*Braider for Sewing Machines.*



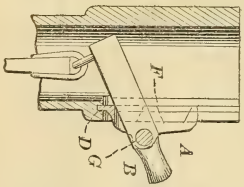
**89916**—J. M. Clark—*Steam Generator.*



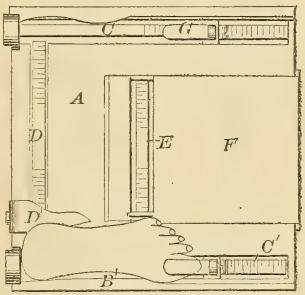

**89917**—B. F. Cloud—*Curtain Fixture.*



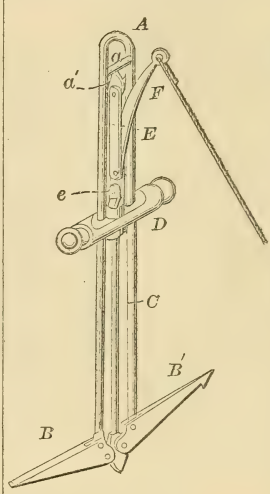

**89918**—J. W. Cole—*Pump.*



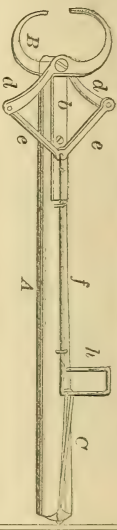

**89919**—C. Cross—*Foot Measure for Shoemakers.*



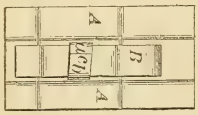

**89920**—F. Ebert—*Horse Hay Fork.*



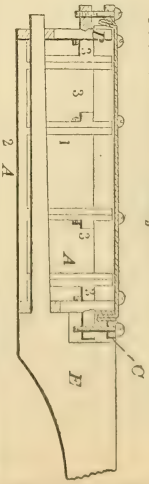

**89922**—D. Fasig—*For Seizing Animals.*



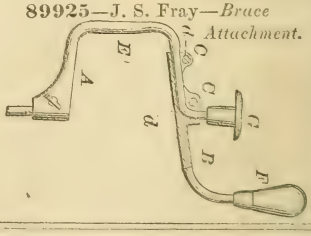

**89921**—G. Ewart—*Needle Wrapper.*



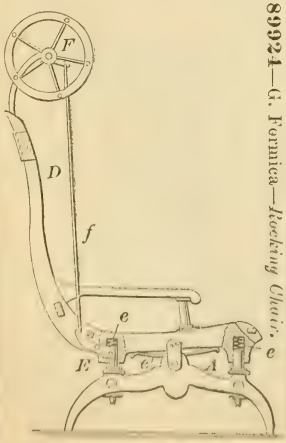

**89923**—J. Field—*Banjo.*



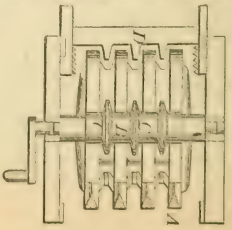

**89925**—J. S. Fray—*Brace Attachment.*



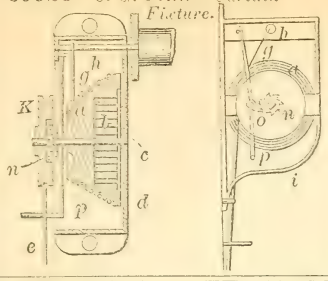

**89924**—G. Formica—*Rocking Chair.*



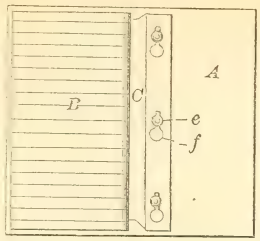

**89927**—L. P. Garner—*Coal Screen.*



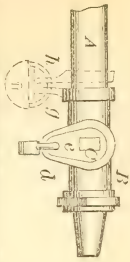
**89926**—C. G. Fritts—*Curtain Fixture.*



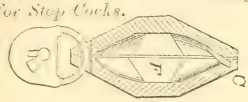
**89928**—Guest & Fawcett—*Memorandum Book.*



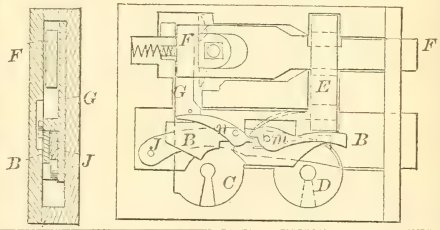
**89929**—V. T. Hall—*Locking Device for Stop Cocks.*



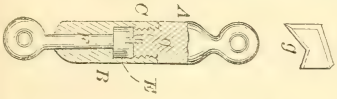
**89930**—V. T. Hall—*Locking Case for Stop Cocks.*



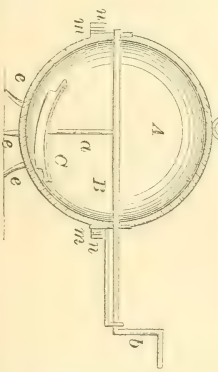
**89931**—J. W. Jones—*Door Lock.*



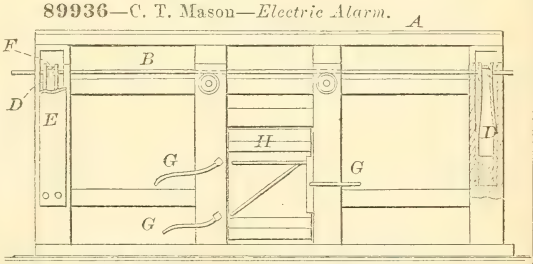
**89932**—T. D. Keith—*Operating Drills.*



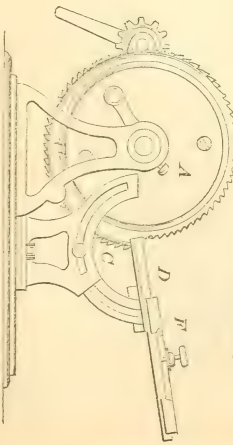
**89933**—I. Long—*Coffee Roaster.*



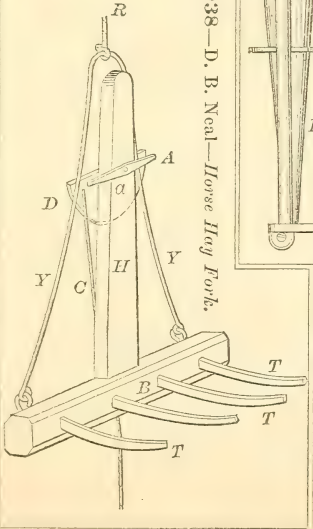
**89936**—C. T. Mason—*Electric Alarm.*



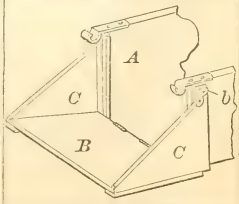
**89937**—W. A. McDonald—*For Cutting Mouldings in Wood.*



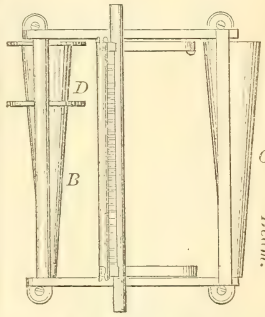
**89938**—D. B. Neal—*Horse Hay Fork.*



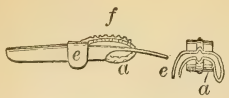
**89939**—Neill & Pick—*End Board for Wagons.*



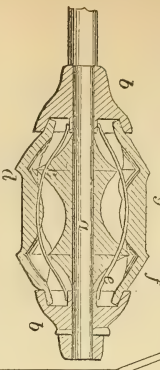
**89937**—F. X. Longhery—*Warp Beam.*



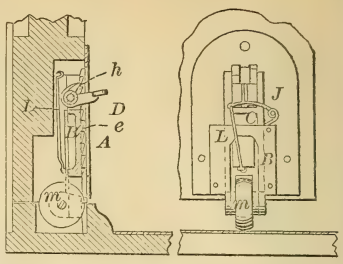
**89940**—H. L. Pratt—*Pen.*



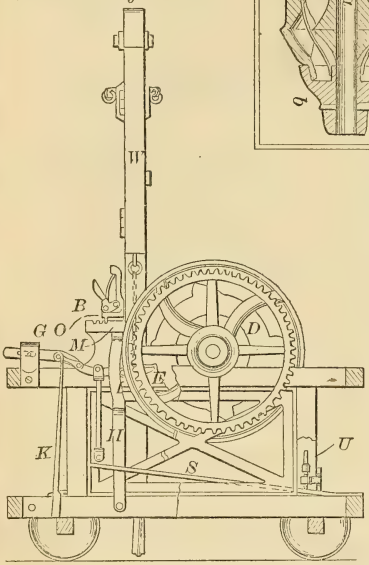

**89941**—H. L. Pratt—*Boiler Scraper.*



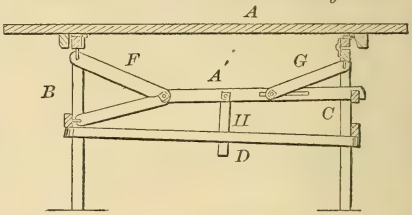

**89942**—W. Quayle—*Door Fastener.*



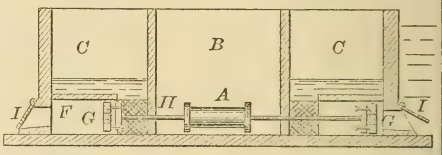

**89944**—J. H. Roberts—*Rock Drilling Machine.*



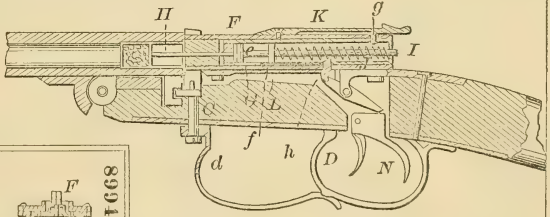

**89943**—T. M. Richards—*Ironing Table.*



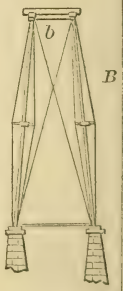

**89946**—J. Roy—*Draining Apparatus.*



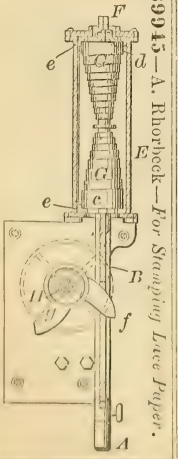

**89947**—G. Schulz—*Fire Arm.*



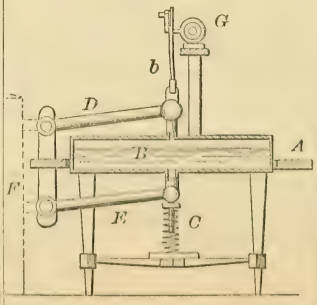

**89948**—F. H. Smith—*Bridge.*

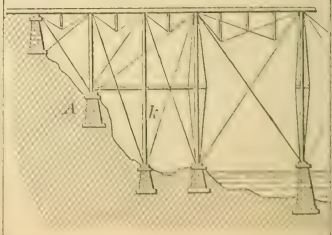



**89945**—A. Rhorbeck—*For Stamping Lace Paper.*

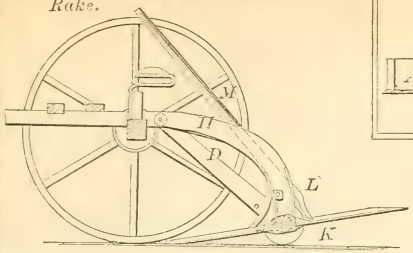



**89949**—N. L. Smith—*Feed Water Regulator.*

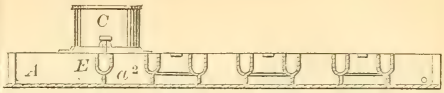


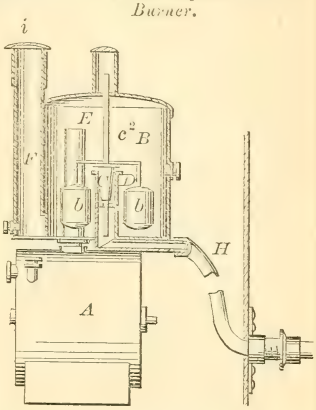
**89950**—E. R. & W. P. Spear—*Horse Rake.*



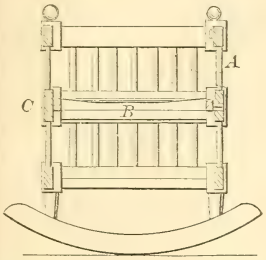

**89951**—H. Stollar—*Evaporator.*



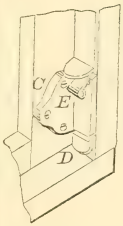

**89952**—J. Stratton—*Hydro-Carbon Burner.*



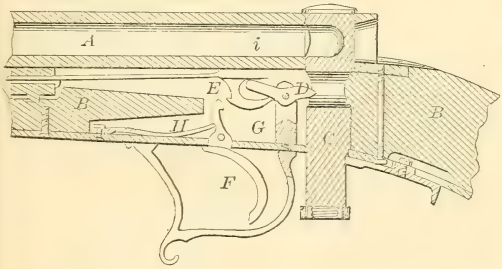

**89953**—A. R. Swartz—*Crib.*



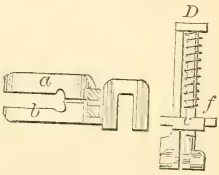

**89954**—Teahl & Zimmerman—*Sash Holder.*



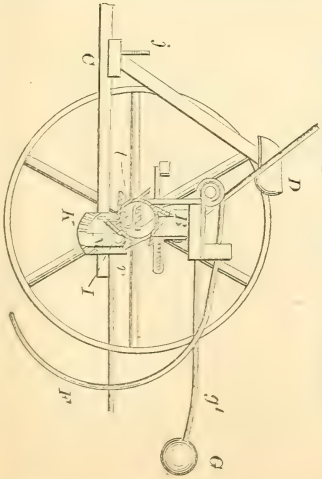

**89955**—L. B. Tiebel—*Fire Arm.*



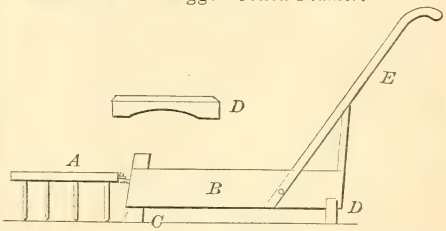

**89957**—S. Tutton—*For Sewing Machines.*



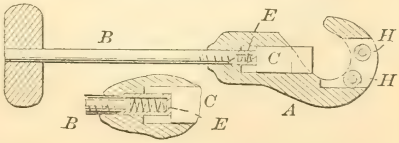

**89956**—Tschop & Hartman—*Horse Rake.*



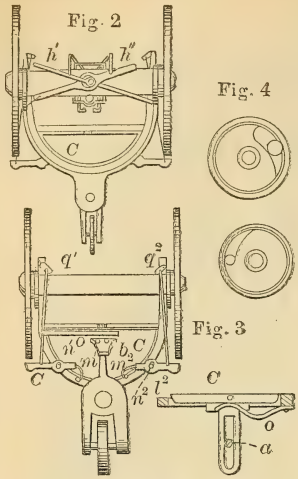

**89958**—A. R. Wiggs—*Cotton Planter.*



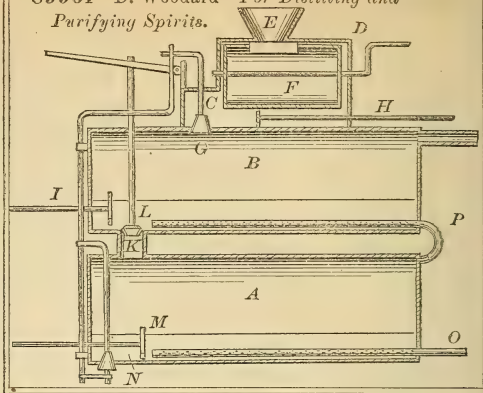

**89959**—A. G. Wilder—*Pipe Cutter.*



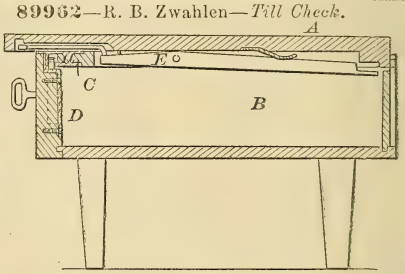
**89960**—B. F. Wilson—*Velocipede.*



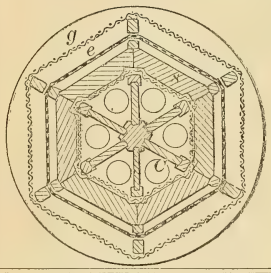

**89961**—D. Woodard—*For Distilling and Purifying Spirits.*



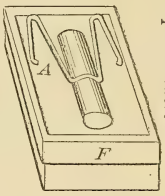
**89962**—R. B. Zwahlen—*Till Check.*



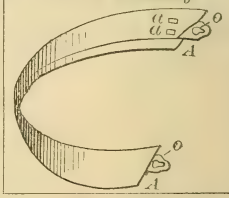
**89963**—J. T. Agner—*Bolting Reel.*



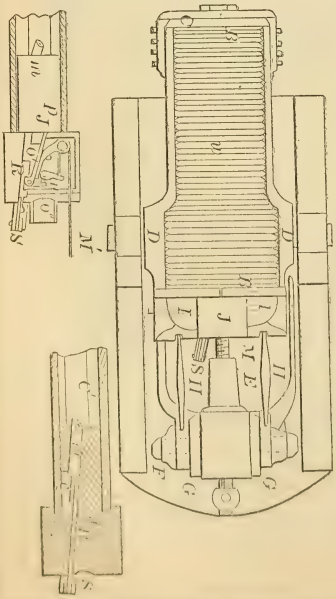
**89966**—G. L. Bailey—*Sample Holder.*



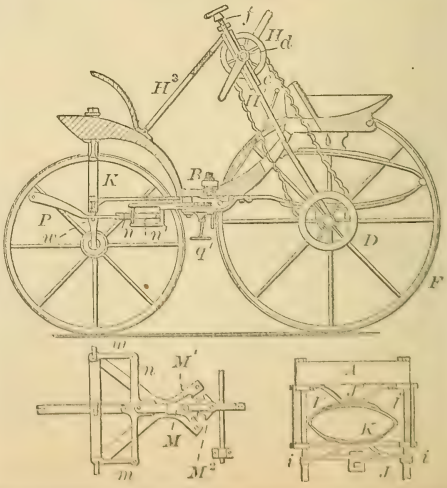
**89967**—M C. Battey—*Collar Fastening.*



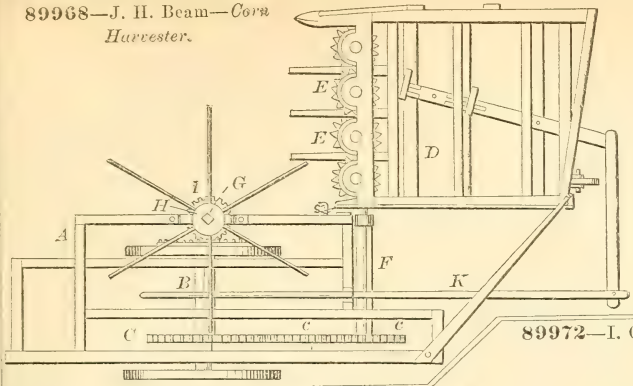
**89965**—W. Bacon—*Ordnance.*



**89964**—J. Allgaier—*Velocipede.*

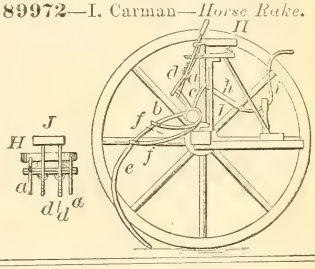


**89968**—J. H. Beam—*Corn Harvester.*

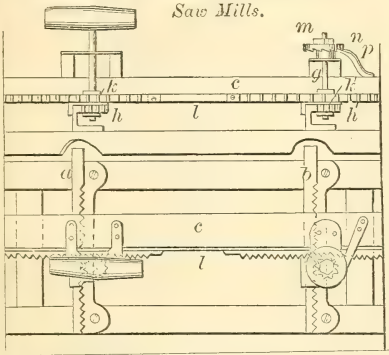



**89970**—J. W. Bishop—*Picture Nail.*

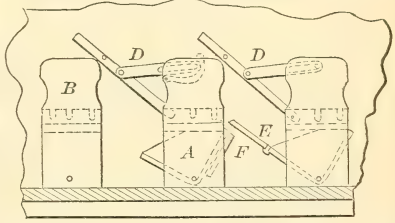
**89972**—I. Carman—*Horse Rake.*



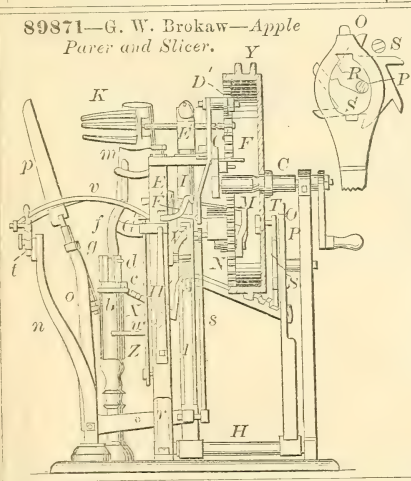

**89869**—A. M. Beard—*Head Block for Saw Mills.*



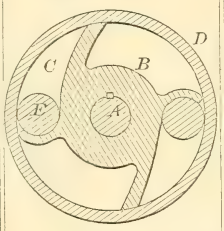

**89976**—J. S. Diack—*Car Seat.*



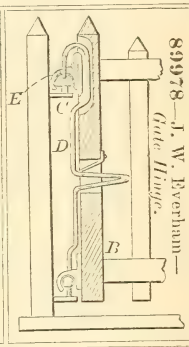

**89871**—G. W. Brokaw—*Apple Parer and Slicer.*



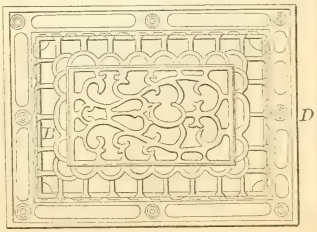

**89873**—Coolman & Young—*Harvester.*



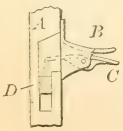

**89978**—J. W. Everham—*Gate Hinge.*



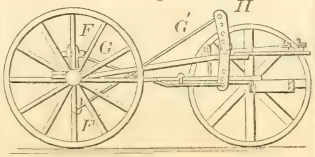

**89974**—W. G. Creamer—*Car Ventilator.*



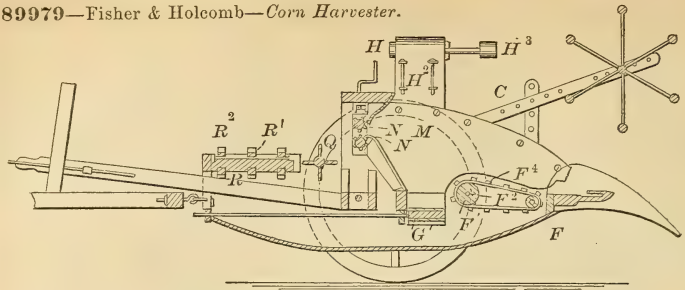

**89875**—J. L. Devol—*Sash Fastener.*

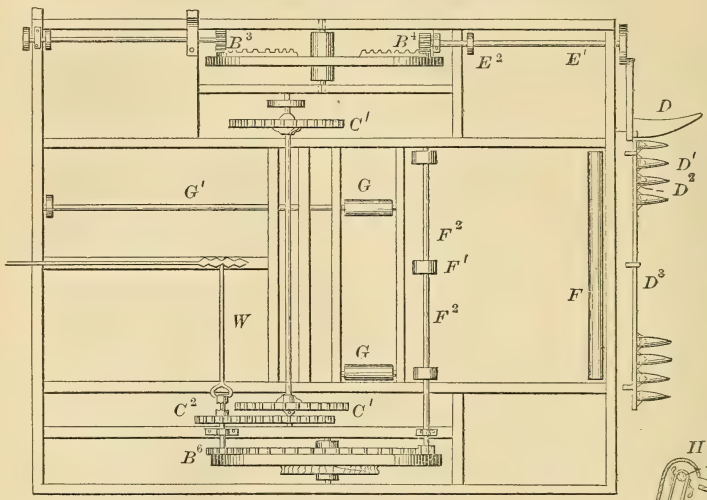



**89877**—Doty & Dickinson—*Velocipede.*

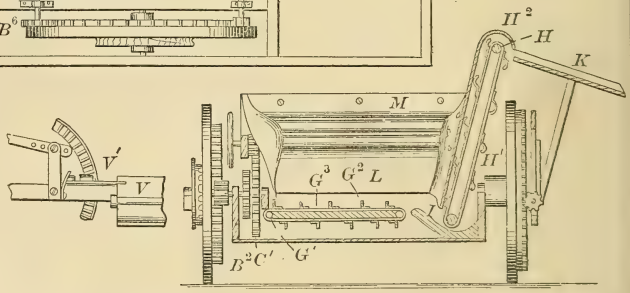


**89979**—Fisher & Holcomb—*Corn Harvester.*

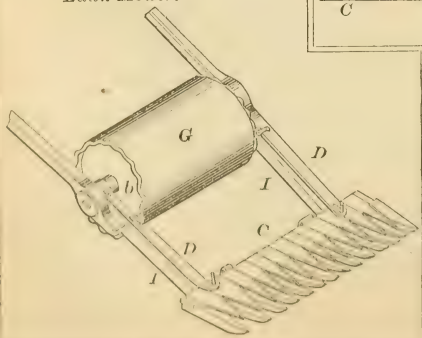


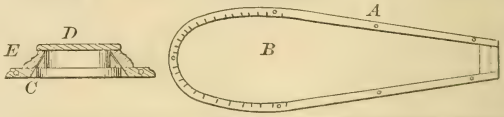

**89980**—C. Fogelberg—*Preparing Zinc for Organ Pipes.*



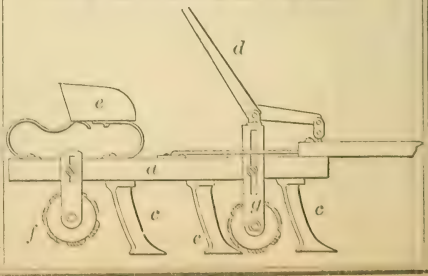

**89981**—T. Garrick—*Lawn Mower.*



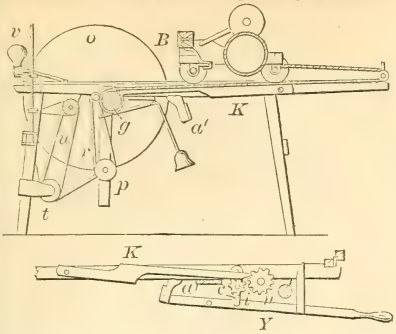

**89982**—J. Gawler—*Burial Case.*



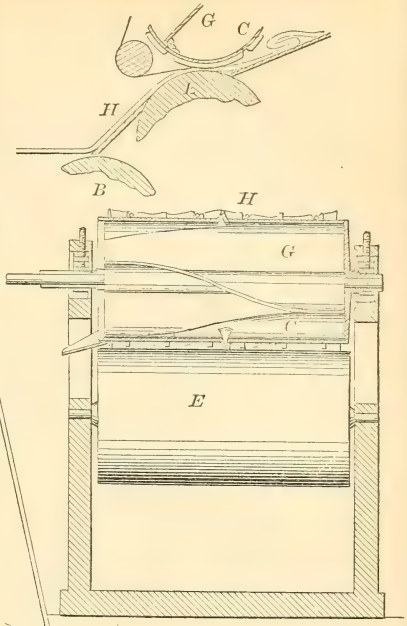

**89983**—J. Gould—*Grass Renovator.*



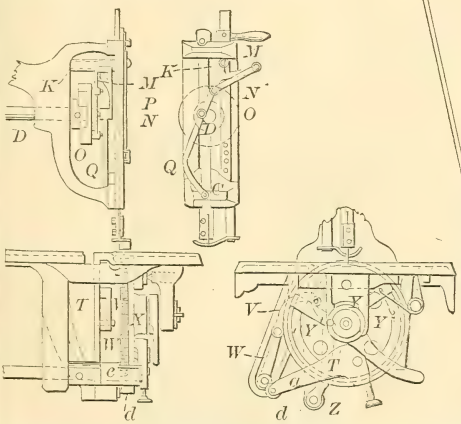
**89984**—B. A. Grant—*Spinning Machine.*



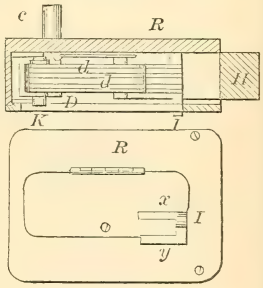

**89985**—G. Y. Gray—*Cracker Machine.*



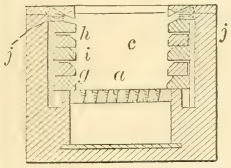

**89987**—L. Griswold—*Sewing Machine.*

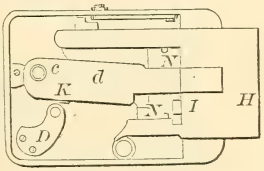



**89989**—H. Gross—*Lock.*

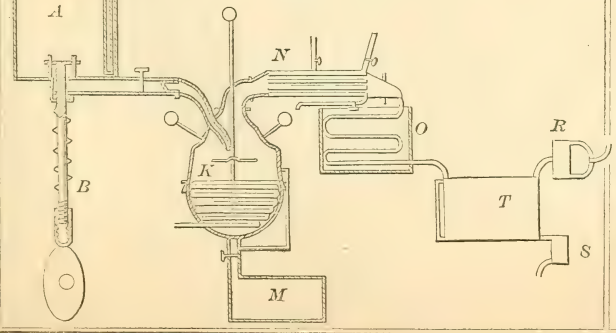



**89986**—C. B. Gregory—*Furnace.*

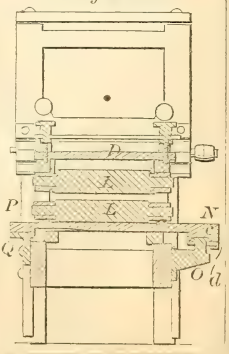


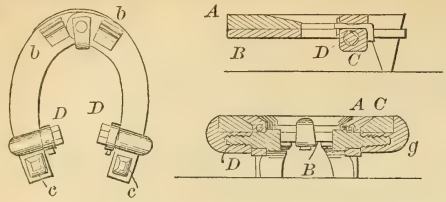

**89988**—Grogan & Lape—*For the Distillation of Hydro-Carbon Oils.*



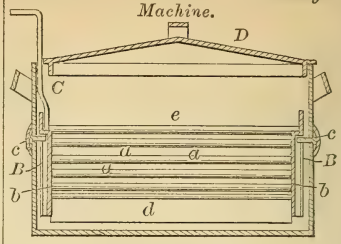

**89990**—E. P. Halsted—*Planing Machine.*



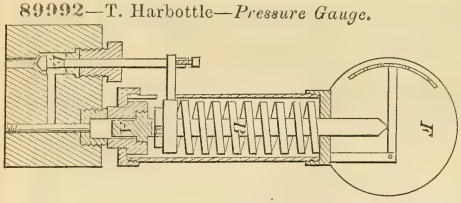
**89991**—Handy & Kleibacker—*Horse Shoe.*



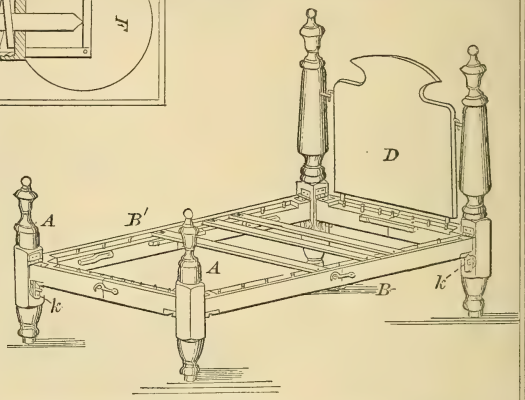

**89994**—R. Hermance—*Washing Machine.*



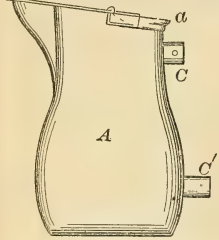

**89992**—T. Harbottle—*Pressure Gauge.*



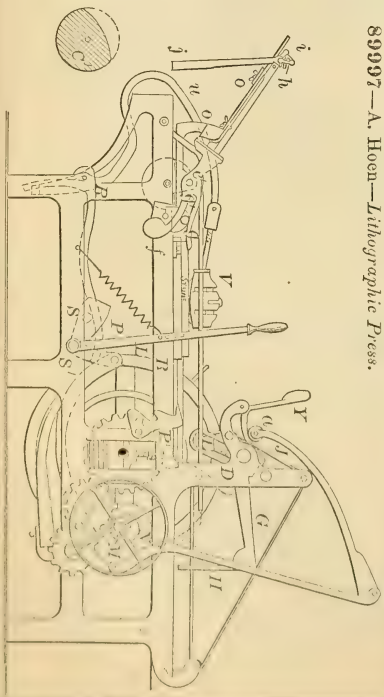

**89993**—T B. Harkins—*Bedstead.*



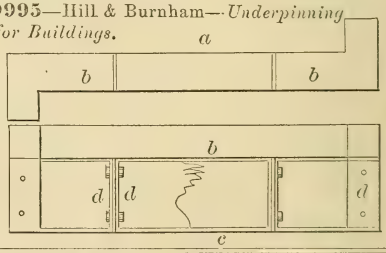

**89996**—J. H. Hobbs—*Pitcher.*



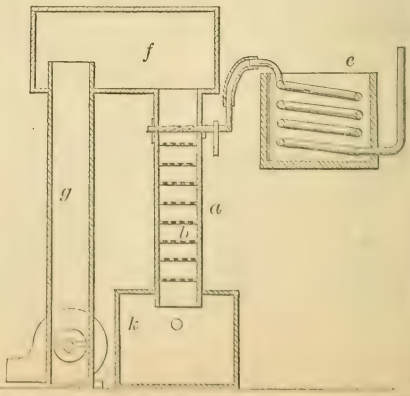

**89997**—A. Hoen—*Lithographic Press.*



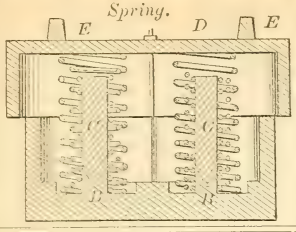

**89995**—Hill & Burnham—*Underpinning for Buildings.*



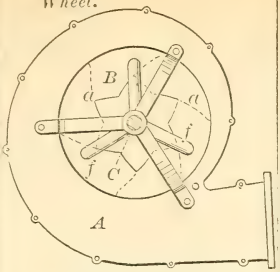

**89998**—A. H. Hook—*For Freeing Petroleum and other Liquids from Gas.*



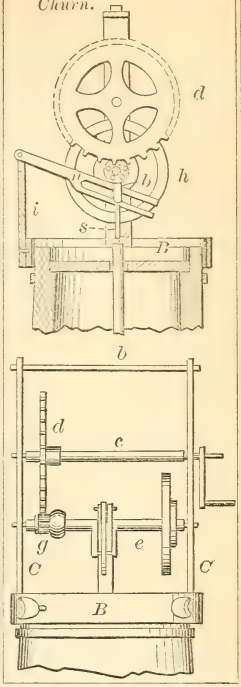
**89999**—E. J. Horner—*Car Spring.*



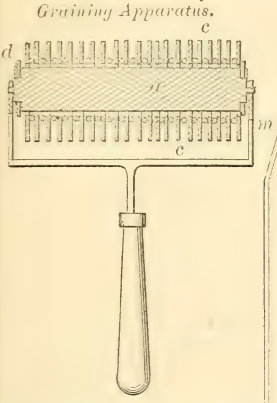

**90000**—A. Hubbell—*Water Wheel.*



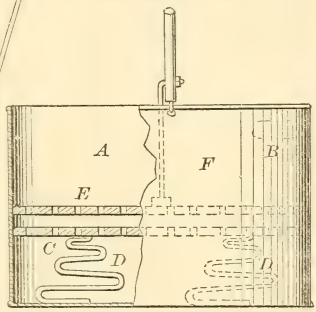

**90002**—H. E. James—*Churn.*



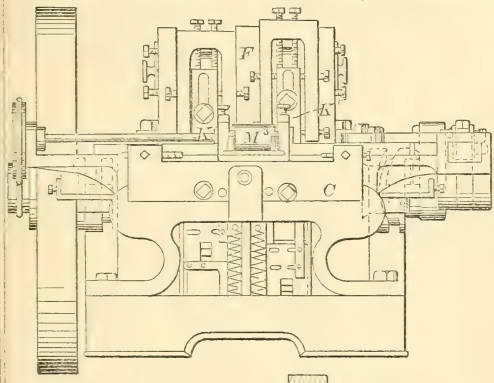

**90004**—W. H. Kay—*Graining Apparatus.*



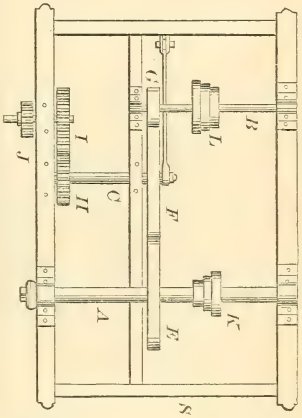

**90001**—A. L. Hurtt—*Washing Machine.*

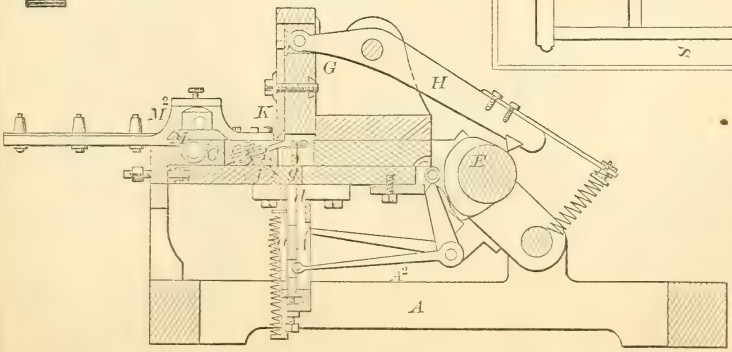



**90003**—Jones & Snow—*For Making Cut Nails.*



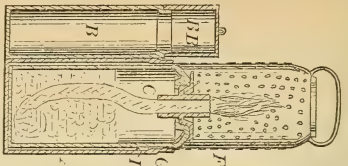

**90005**—J. E. Keyt—*Saw Mill Feed.*



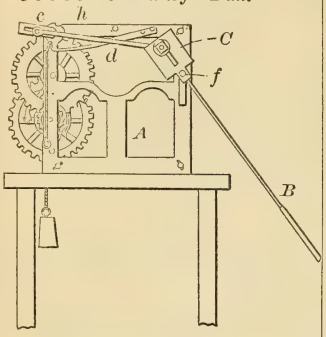



**90006**—W. Kopp—*Preparing and Embossing Wood.*

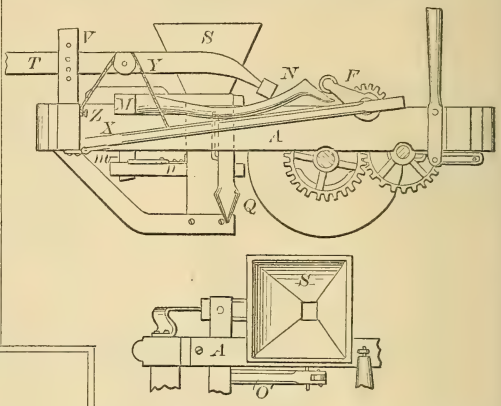
**90007**—C. Mackh—*Lantern.*




**90009**—J. Maltry—*Fan.*

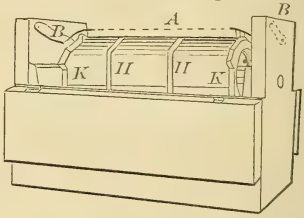



**90008**—N. Maisonneuve—*Corn Planter.*

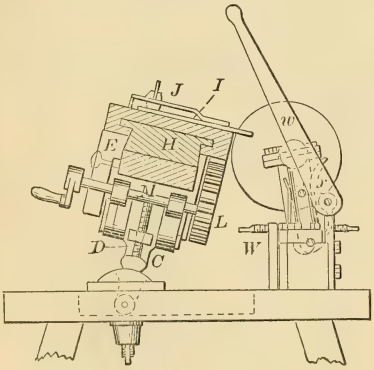


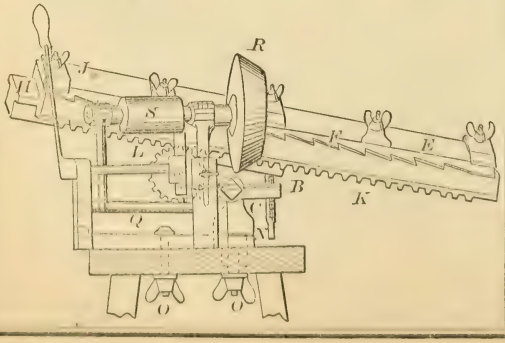

**90013**—G. Murray—*Bag Tie.*

**90011**—Mitchell & Kessinger—*Flour Bolt.*

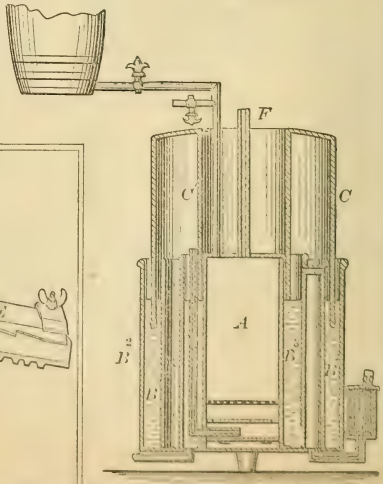



**90010**—T. T. Markland, Jr.—*For Saw Sharpening.*

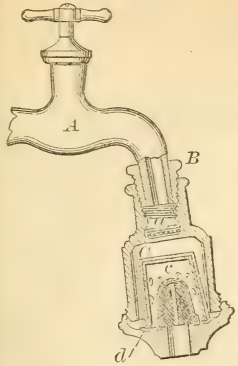


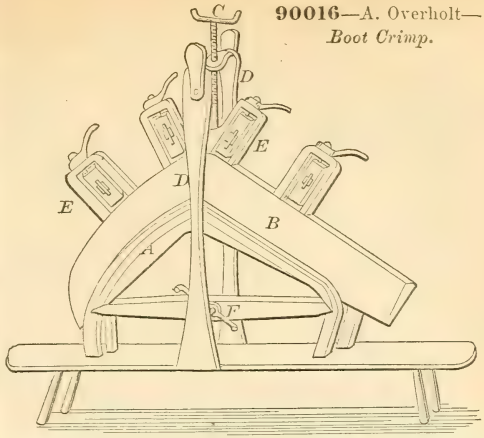

**90012**—E. L. Mix—*Carburetter.*



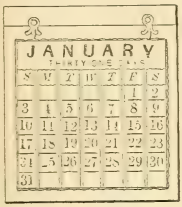
**90015**—North & Thompson—*Water Cock.*



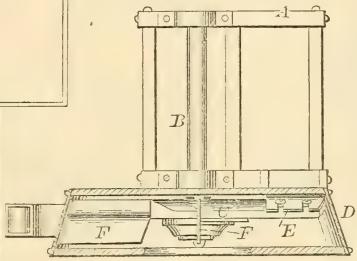

**90016**—A. Overholt—*Boot Crimp.*



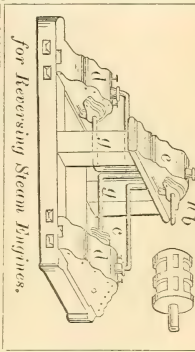

**90017**—J. D. Parsons—*Advertising Calendar.*



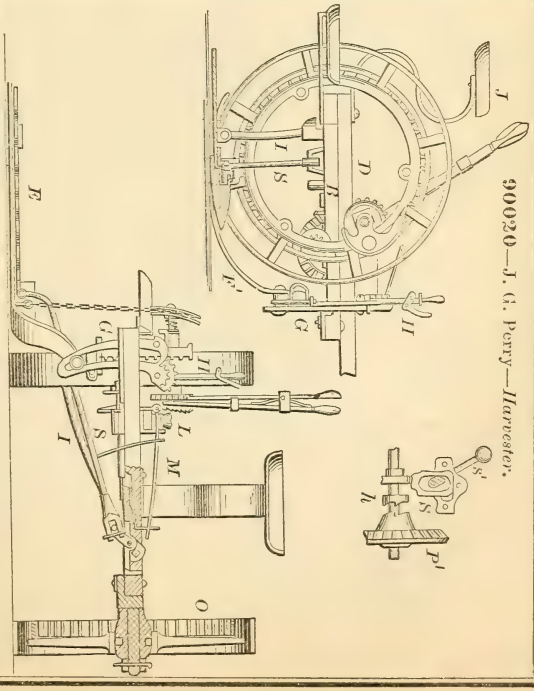

**90018**—F. A. Pauck—*Tobacco Carrier and Dresser.*



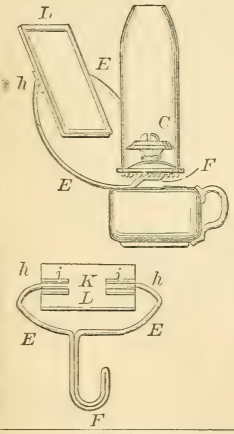

**90019**—J. B. Pedrick—*Steam Pipe for Reversing Steam Engines.*



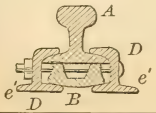

**90020**—J. G. Perry—*Harvester.*



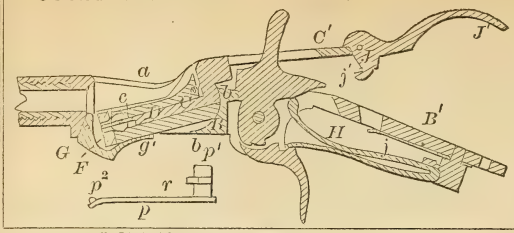

**90021**—J. T. Pope—*Lamp Shade Holder.*



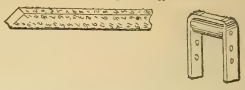

**90023**—S. J. Reeves—*Railway Rail.*



**90024**—B. S. Roberts—*Fire Arm.*

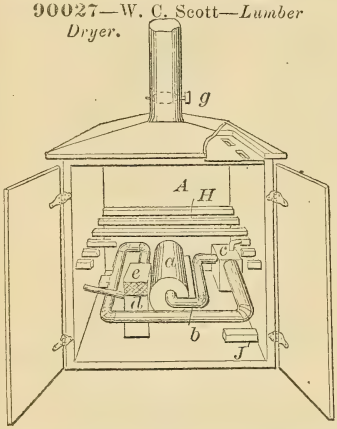



**90025**—W. H. Robinson—*Leveling Staff.*

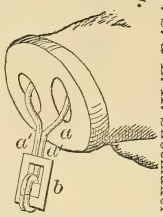


**90026**—G. W. Roland—*Buckle.*

**90027**—W. C. Scott—*Lumber Dryer.*

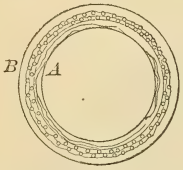



**90028**—W. S. & E. H. Shoemaker—*Hog Ring.*

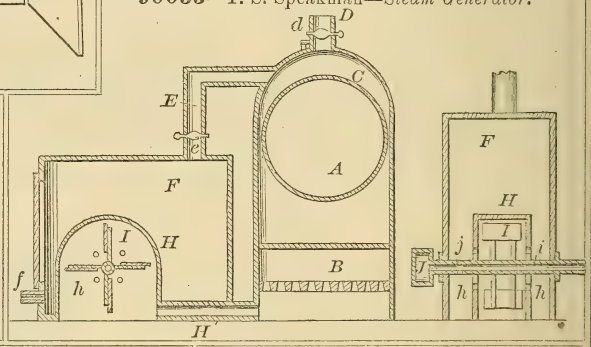



**90030**—M. Simons—*Coffee and Tea Pot.*

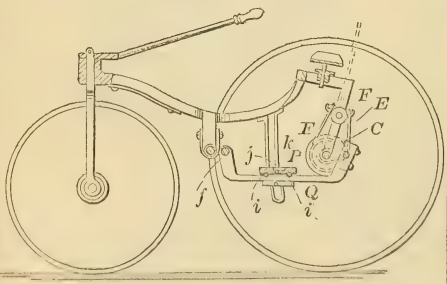
**90031**—G. C. Smith—*Hose.*

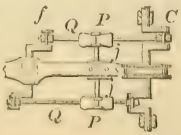



**90033**—T. S. Speakman—*Steam Generator.*

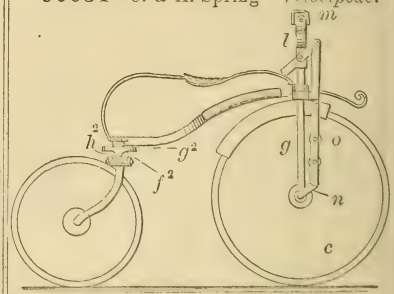


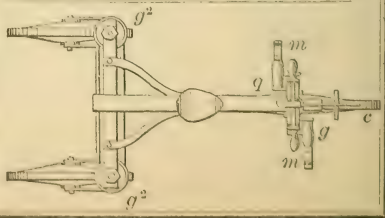

**90032**—H. Smith—*Velocipede.*



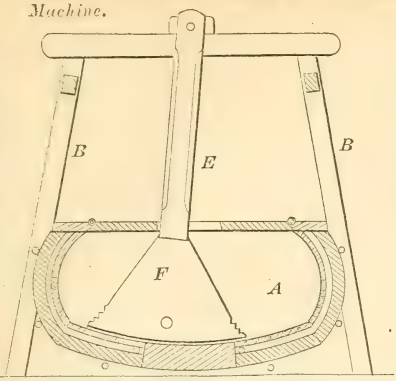




**90034**—C. & A. Spring—*Velocipede.*

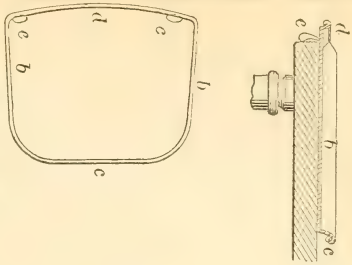


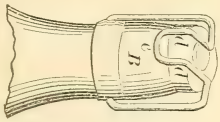
**90035**—J. Taylor—*Washing and Fulling Machine.*



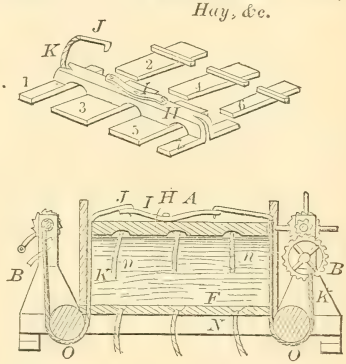

**90036**—A. Turner—*Child's Table Tray.*



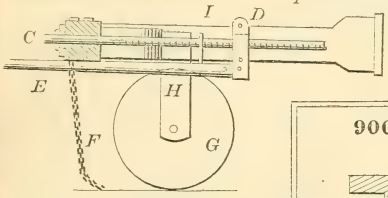
**90037**—E. D. Weatherbee—*Cork Fastener.*



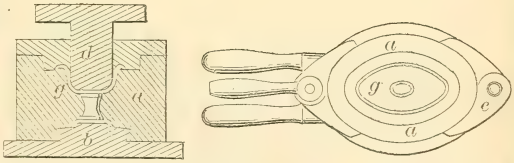
**90039**—J. H. Wittmer—*Power Press for Hay, &c.*



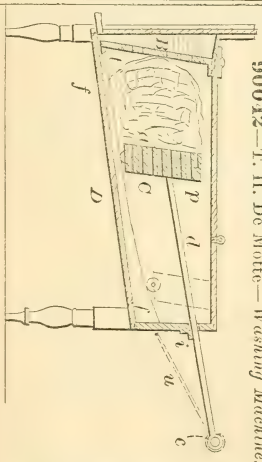

**90038**—B. W. Weaver—*Stump Extractor.*



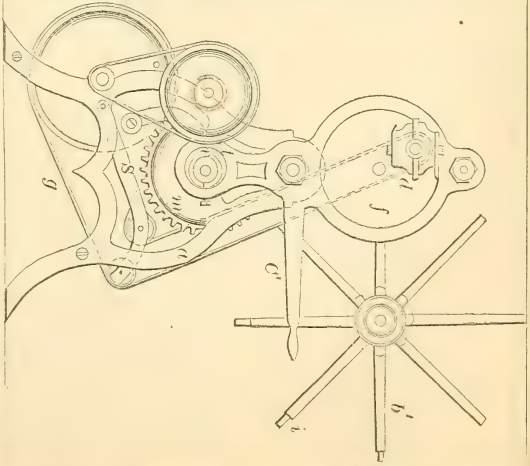

**90040**—A. E. Young—*Glassware Mould.*



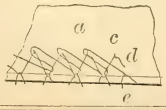
**90042**—T. H. De Motte—*Washing Machine.*



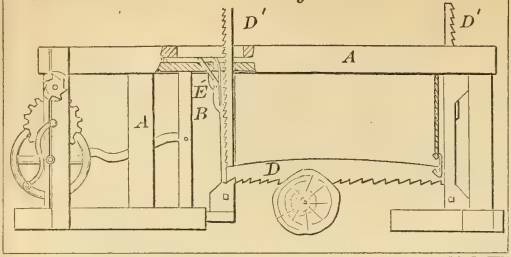
**90041**—C. W. Cotton—*For Forming Oval Tenons.*



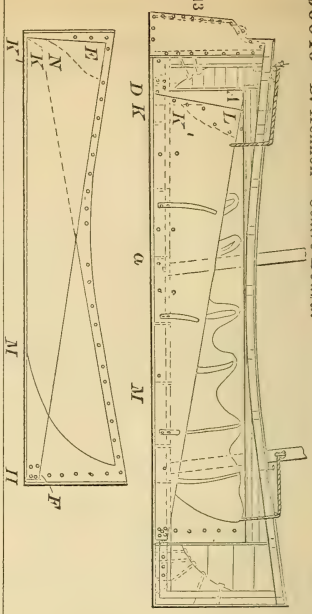
**90045**—A. Harroun, Jr.—*Machine Made Stitch.*



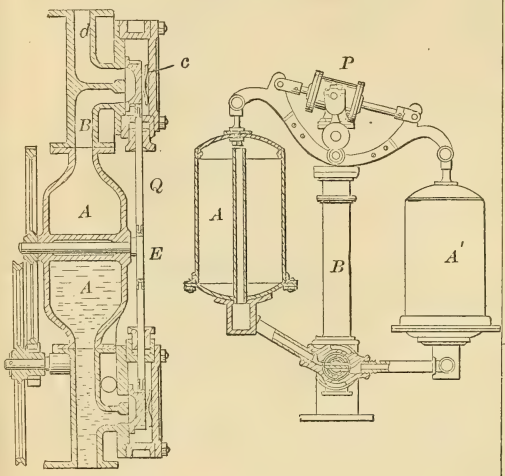
**90043**—W. Gardiner—*Sawing Machine*



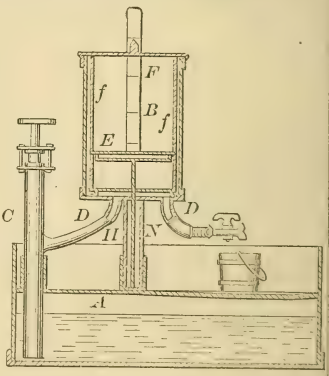

**90046**—B. Kennon—*Centre Board.*



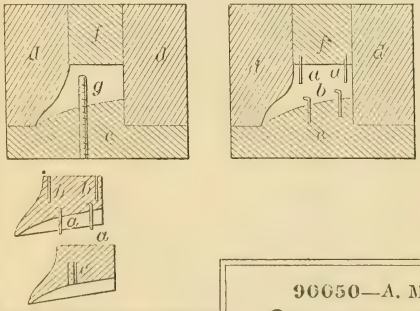

**90047**—P. N. J. Macabies—*Boiler Feeder.*



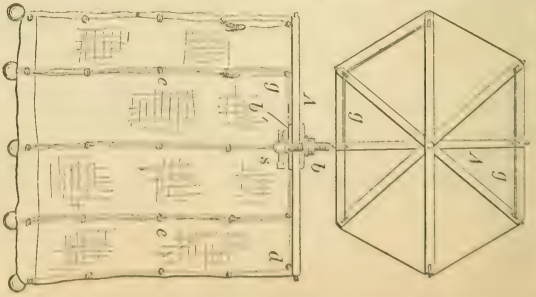

**90044**—J. S. Gold—*Measuring Can.*



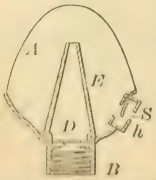

**90049**—F. H. Morgan—*Boot and Shoe Heel.*



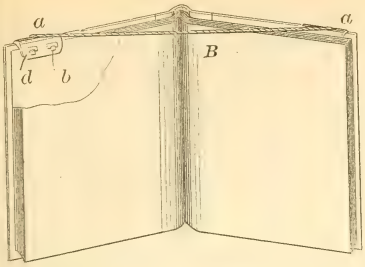

**90050**—A. M. Rodgers—*Mosquito and Fly Net.*



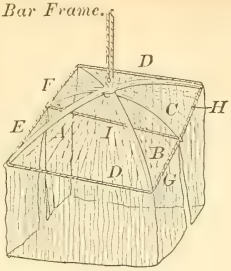

**90051**—Z. Rogers—*Air Inhaler.*



**90052**—M. A. H. Saurman—*Book Curb.*

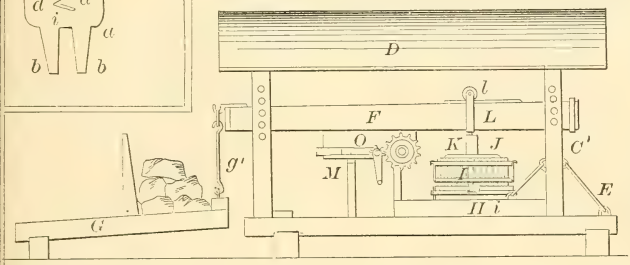



**90054**—H. Searle—*Mosquito Bar Frame.*

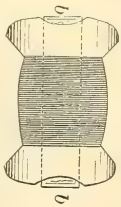



**90055**—W. S. & E. H. Shoemaker—*Clothes Line Clamp.*

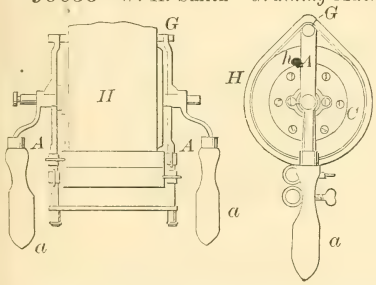
**90053**—J. Scholer—*Wine and Cider Press.*



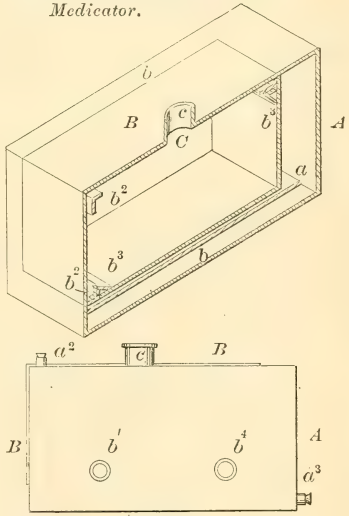

**90059**—Westhead & James—*Sewing Package.*



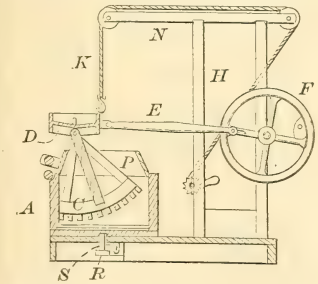

**90056**—W. H. Smith—*Graining Machine.*



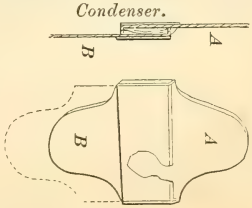

**90058**—I. R. Weisiger—*Dermatic Medicator.*



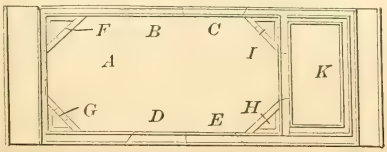

**90061**—H. H. Waters—*Washing Machine.*



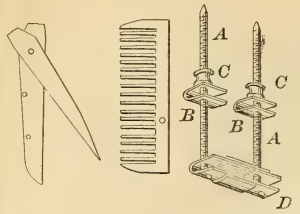

**90062**—J. F. Adams—*Gold Leaf Condenser.*



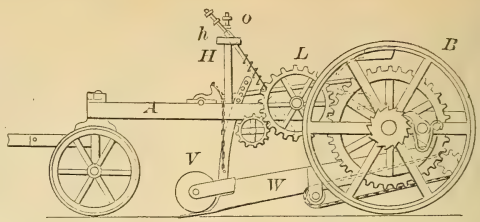

**90060**—D. Fitzgerald—*Railway Car.*

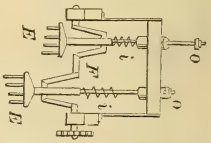


**90063**—J. H. Atkinson—*Comb and Shears.*

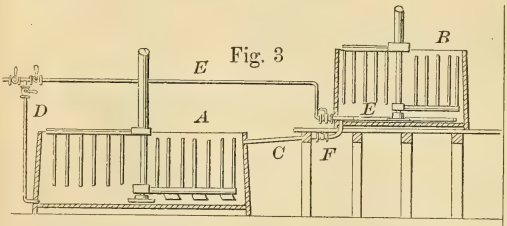


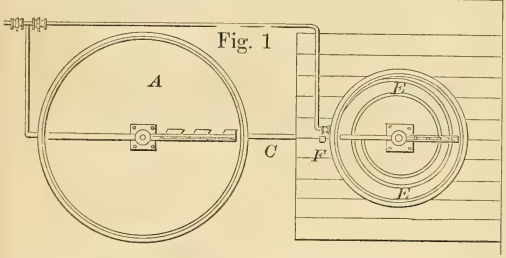

**90065**—O. W. Baldwin—*Potato Digger.*



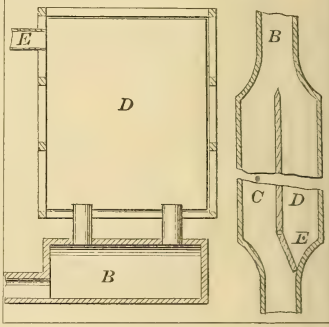




**90066**—N. Bauman—*For Brewing.*

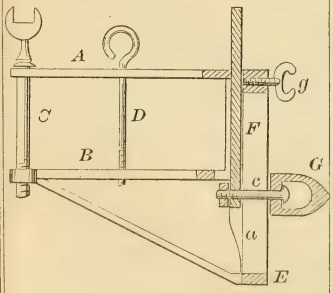


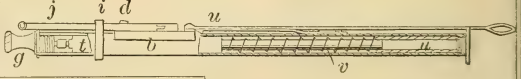

**90067**—Bigelow & Baldwin—*For Purifying Waste Gases.*

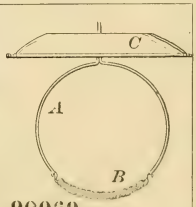



**90068**—J. A. Bilz—*Plow Clevis.*

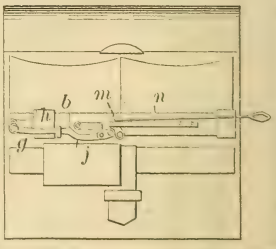



**90070**—Blodgett & Weatherby—*Pocket Book Alarm.*

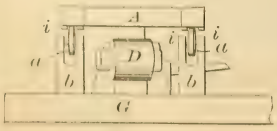


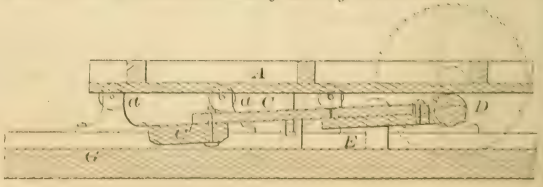




**90069**—E. C. Blakeslee—*Lamp Reflector.*

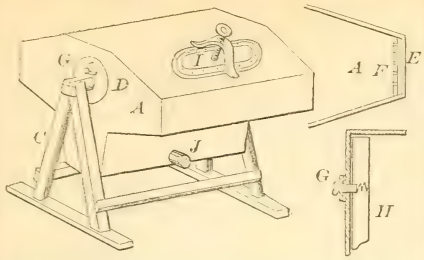



**90071**—H. C. Boardman—*Log Sawing Machine.*

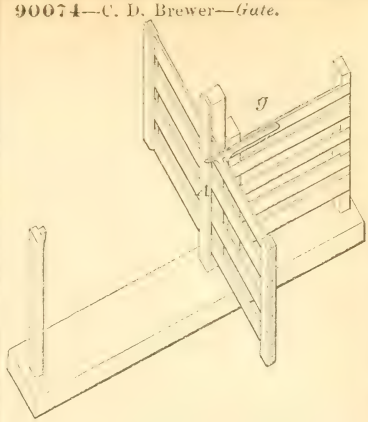


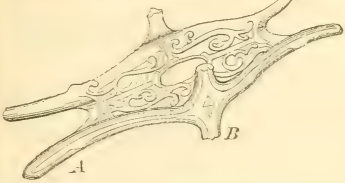
**90072**—F. W. Born—*Washing Machine.*



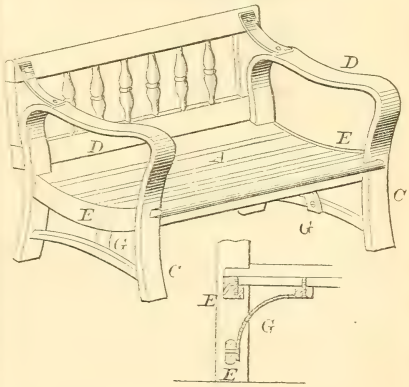

**90074**—C. D. Brewer—*Gate.*



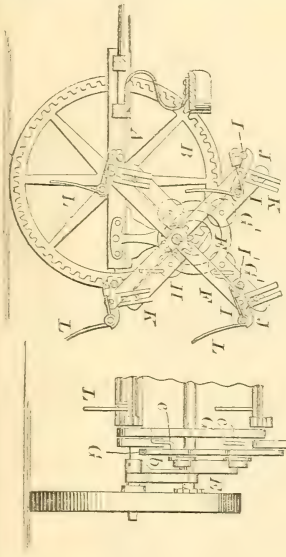

**90076**—E. L. Brown—*Bootjack.*



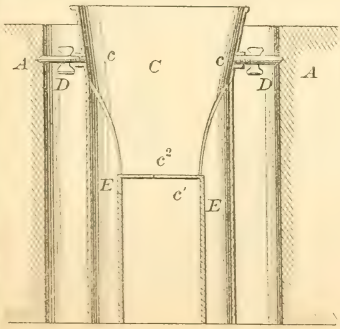

**90078**—W. Chase—*Settee.*



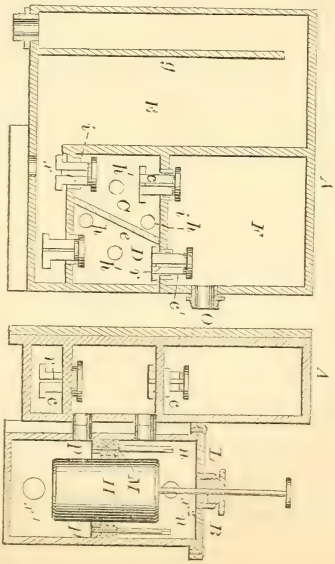

**90077**—W. H. Butterworth—*Hay Spreader.*



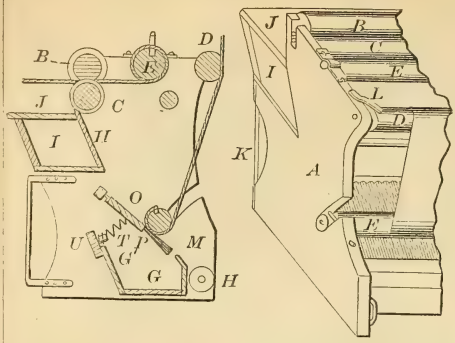
**90079**—G. W. Clapper—*Feed Regulator.*



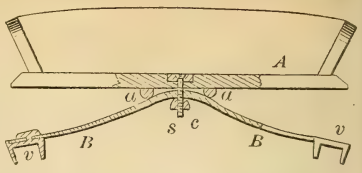

**90080**—W. H. T. Clark—*Pump.*



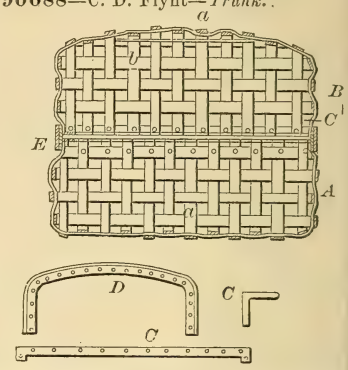
**90081**—L. Cline—*For Hanging Wall Paper.*



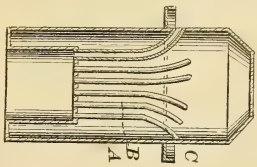

**90082**—T. De Kimp—*Wagon Seat.*



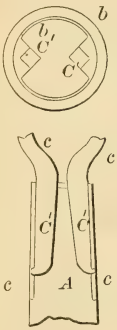

**90088**—C. D. Flynt—*Trunk.*



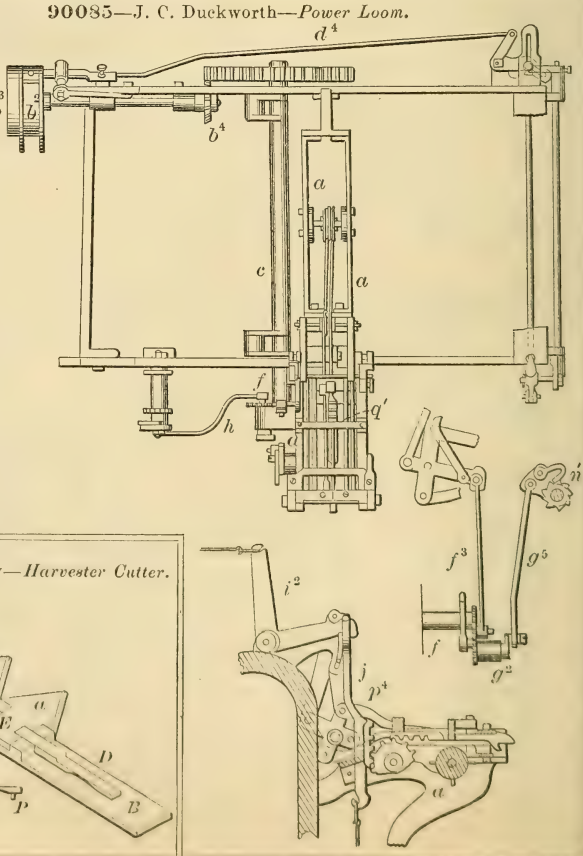

**90083**—A. Demarce—*Steam Generator.*



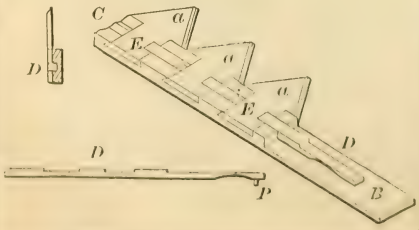

**90087**—G. B. Flint—*Manure and Hay Fork.*



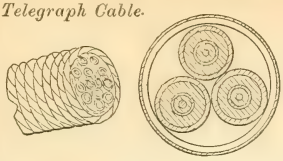

**90085**—J. C. Duckworth—*Power Loom.*



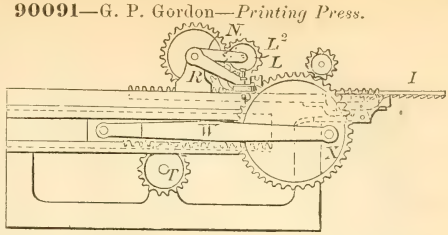

**90086**—G. L. Du Laney—*Harvester Cutter.*



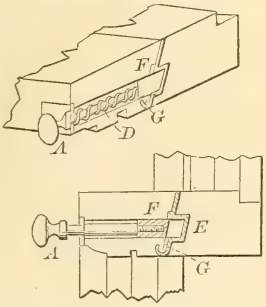
**90089**—A. Foucaut—*Submarine Telegraph Cable.*



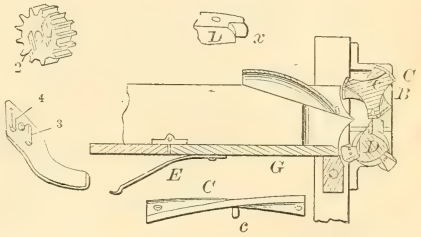
**90091**—G. P. Gordon—*Printing Press.*



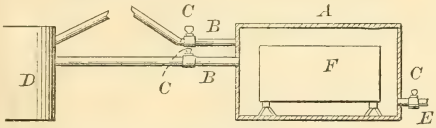

**90092**—L. D. Gould—*Window Fastener.*



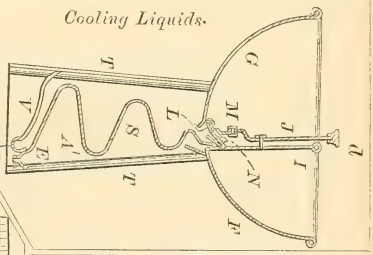

**90090**—W. Gale—*Straw Cutter.*



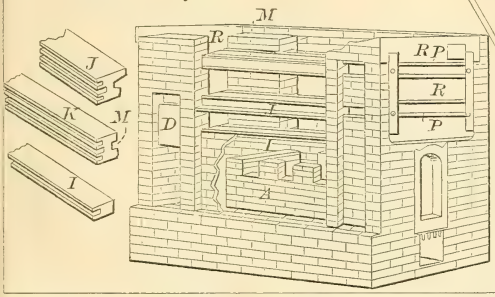

**90093**—E. H. Grant—*Tempering Metals.*



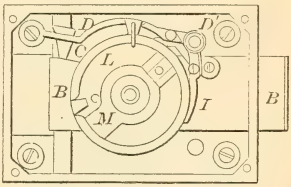

**90094**—Greenlee & Redfield—*For Cooling Liquids.*

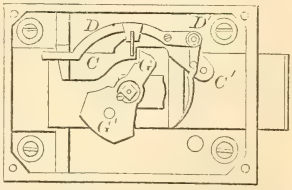



**90095**—J. Gwynn—*Furnace.*

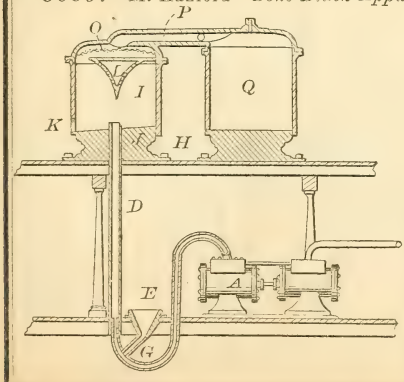



**90096**—W. Hall—*Lock.*

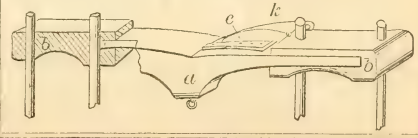


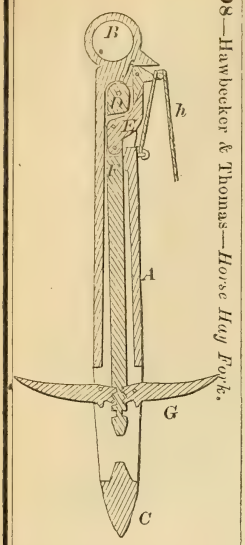

**90097**—M. Hanford—*Bone Black Apparatus.*



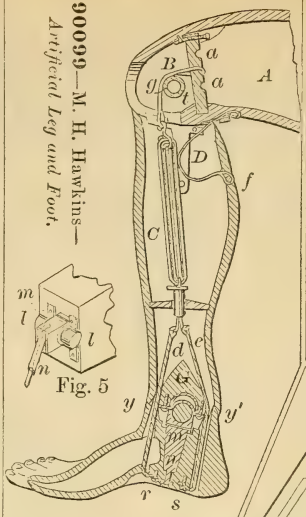

**90101**—E. N. Hillsgrove—*Ox Yoke.*



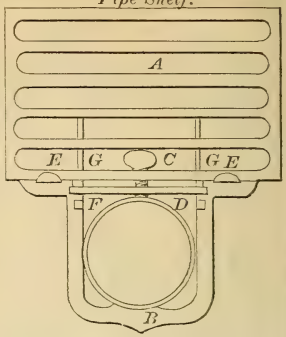
**90098**—Hawbecker & Thomas—*Horse Hay Fork.*



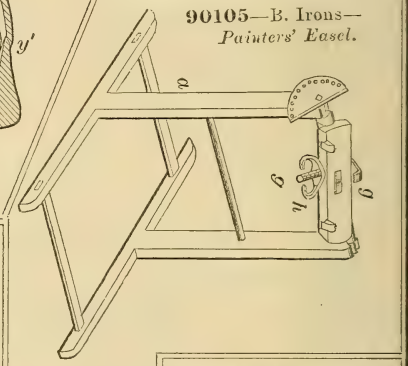

**90099**—M. H. Hawkins—*Artificial Leg and Foot.*



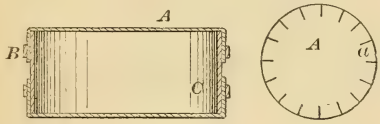

**90102**—N. H. Howard—*Stove Pipe Shelf.*



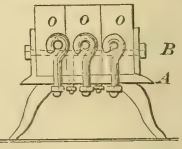

**90105**—B. Irons—*Painters' Easel.*



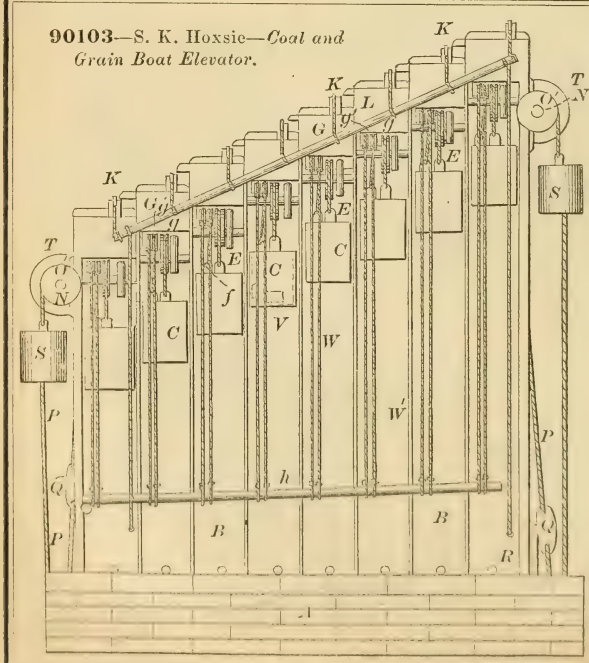

**90107**—V. P. Kimball—*Cheese Box.*

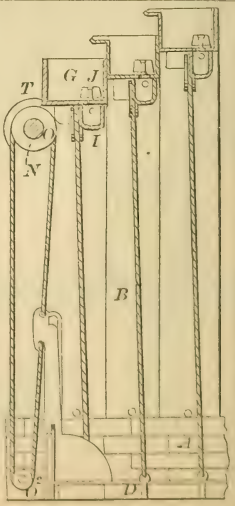



**90104**—L. H. Ives—*Meat Block.*

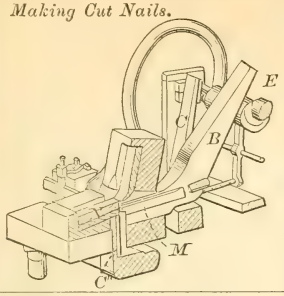



**90103**—S. K. Hoxsie—*Coal and Grain Boat Elevator.*

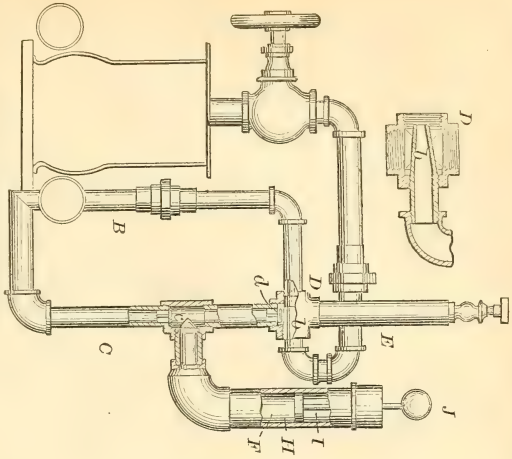


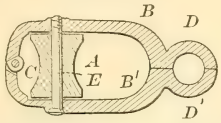
**90108**—J. B. Kingham—*For Making Cut Nails.*



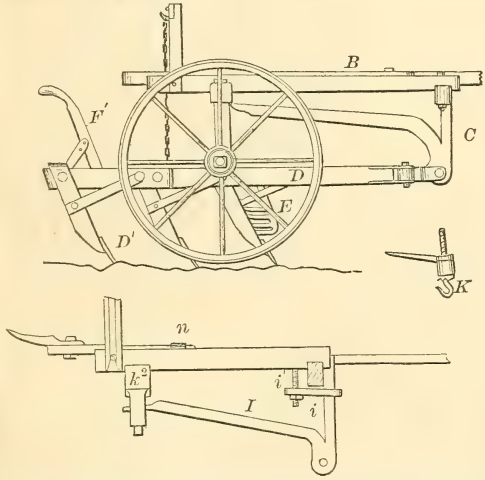

**90110**—D. Lee—*Steam Engine.*



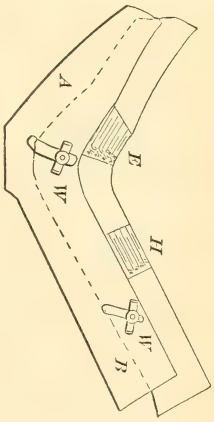

**90113**—McKay & Bayley—*Sail Hank.*



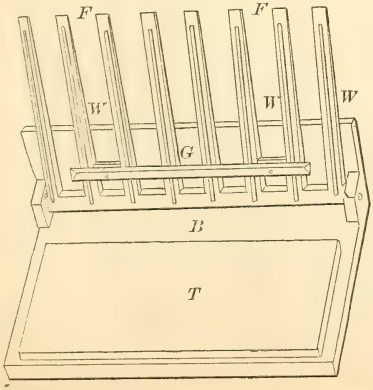

**90112**—J. McIlvain—*Cultivator.*



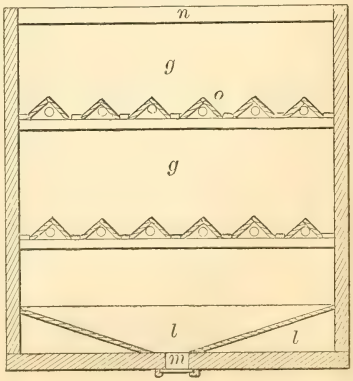

**90115**—M. Meade—*Boot and Shoe Patterns.*



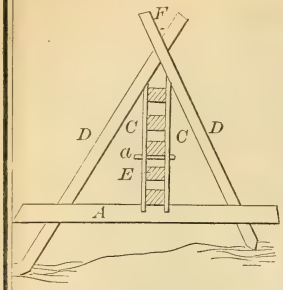

**90114**—T. H. Mead—*Fly Frame for Printing Presses.*



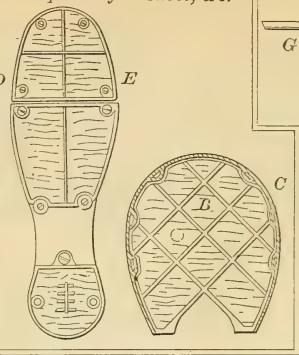

**90116**—C. W. Mills—*Grain Bin.*



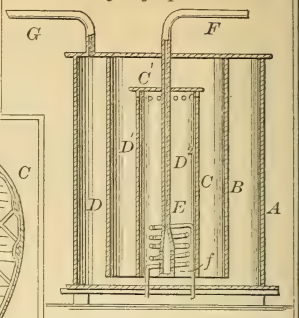
**90117**—T. Nevison—*Fence.*



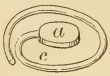

**90118**—E. Osgood—*Compound for Shoes, &c.*



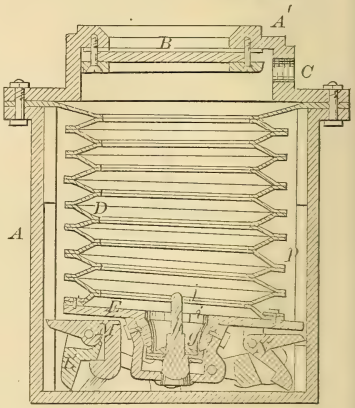

**90120**—P. M. Papin—*For Ageing Spirits.*



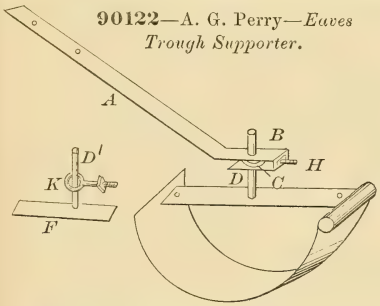

**90119**—O. Paddock—*Button.*

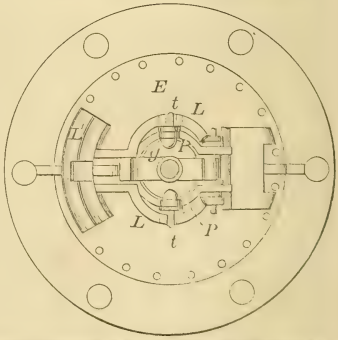



**90123**—T. Poore—*Fluid Meter.*

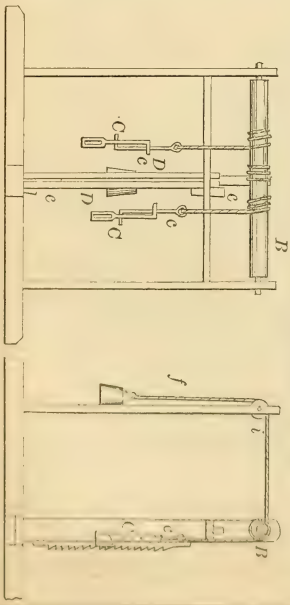



**90122**—A. G. Perry—*Eaves Trough Supporter.*

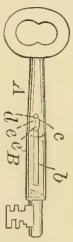


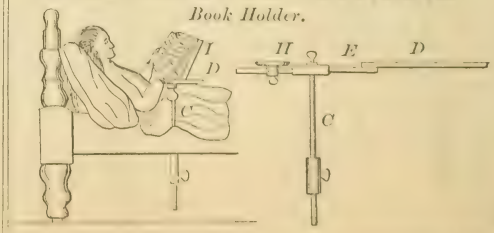

**90125**—Robinson & Silver—*Saw Filing Machine.*



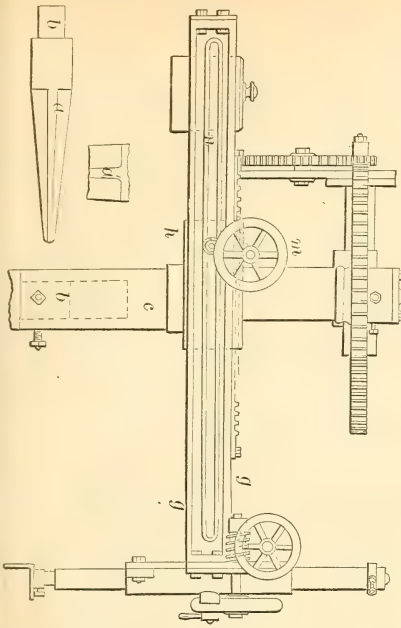

**90121**—E. Parker—*Key.*



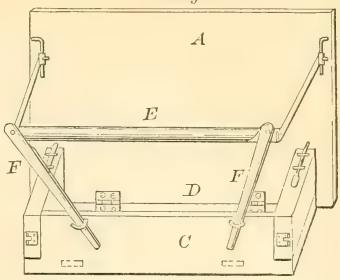

**90124**—Probeck & Corlett—*Invalid Table and Book Holder.*



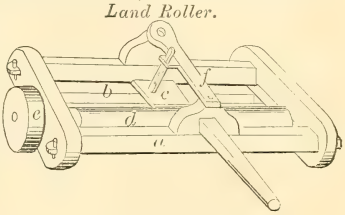
**90126**—G. L. Scott—*For Moulding Pulleys.*



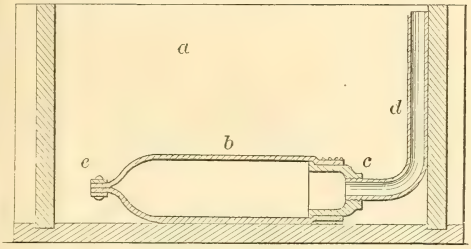

**90129**—W. N. Shellabarger—*Feed Trough.*



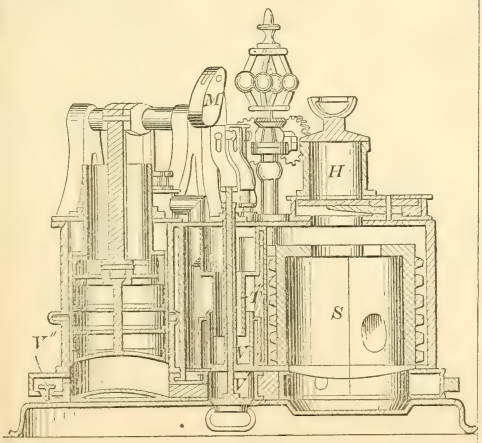

**90131**—Staats, Schwanke & Stadler—*Land Roller.*



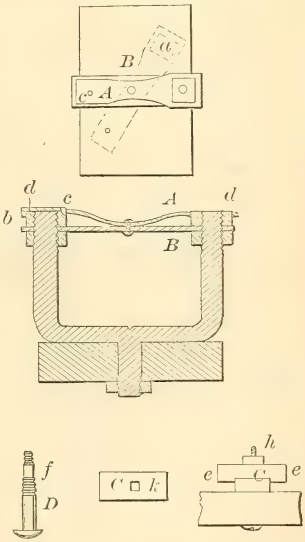

**90127**—T. Shaw—*Water Heater.*



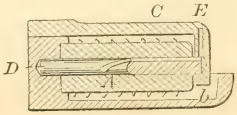

**90128**—T. Shaw—*Hot Air Engine.*




**90132**—G. C. Stamper—*Nut Lock.*




**90133**—E. S. Stimpson—*For Lubricating Temples for Looms.*



**90130**—S. P. Sleppy—*Sewing Machine.*

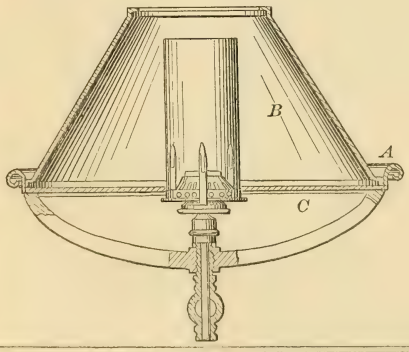
Fig. 6

Fig. 8

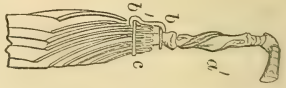
Fig. 9

Fig. 7

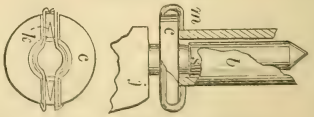
**90135**—J. F. Travis—*Lamp Shade.*



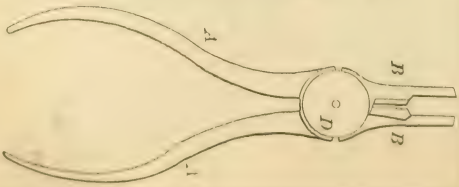
**90134**—T. R. Timby—*Umbrella Fastening.*



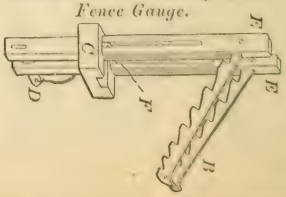
**90137**—A. C. Twining—*Detachable Caster Fixture.*



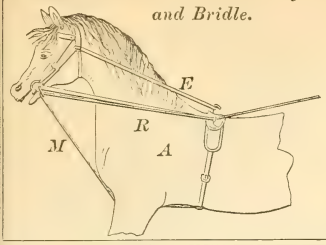
**90136**—W. L. Truland—*Cutting Pliers.*



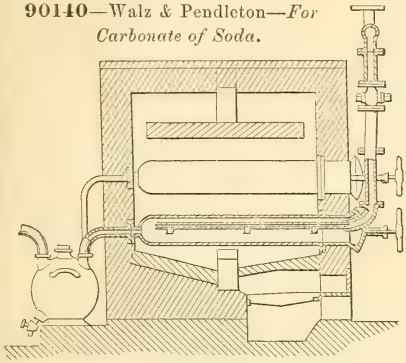
**90138**—W. V. Van Syckel—*Fence Gauge.*



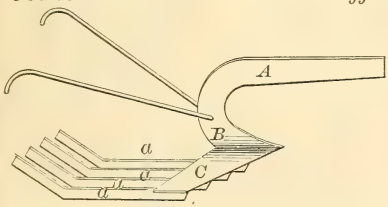
**90139**—W. H. Wall—*Driving Rein and Bridle.*



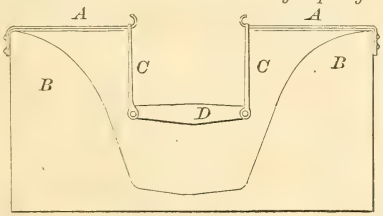

**90140**—Walz & Pendleton—*For Carbonate of Soda.*



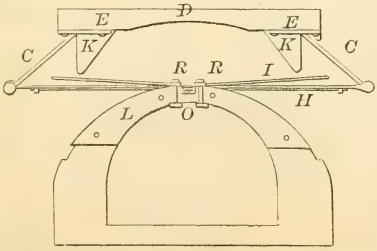
**90142**—Wheeler & Rouse—*Potato Digger.*



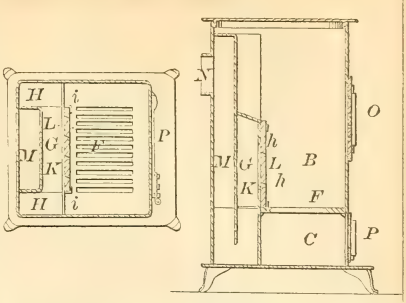

**90145**—A. E. Wolcott—*Carriage Spring.*



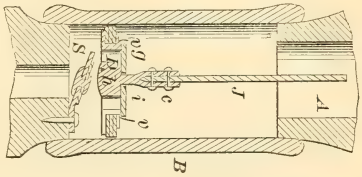

**90146**—A. E. Wolcott—*Carriage Spring.*



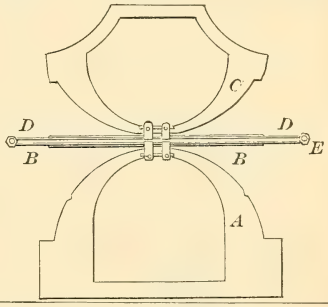

**90141**—D. Wells—*Stove.*



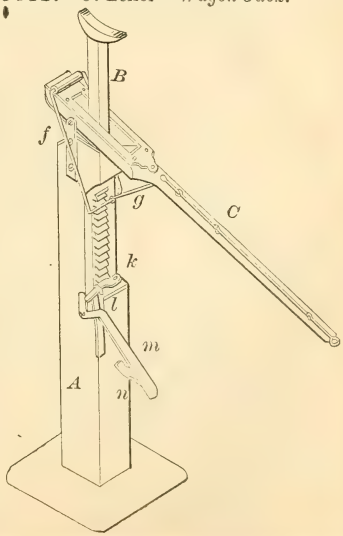

**90143**—P. Wineman—*Pump.*



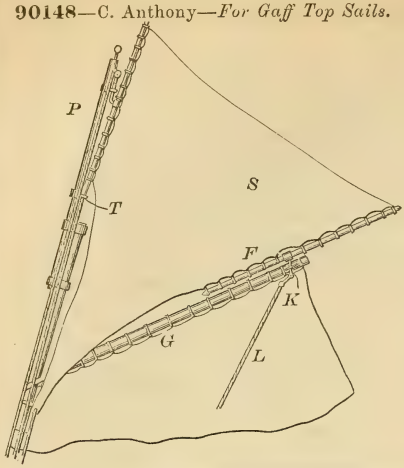

**90144**—A. E. Wolcott—*Carriage Spring*



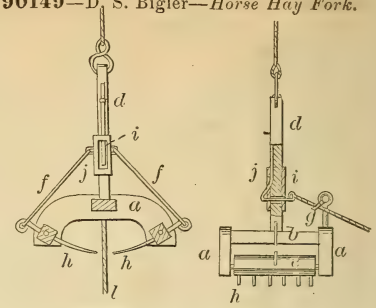

**90147**—J. Zeller—*Wagon Jack.*



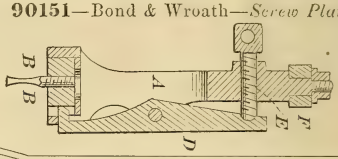
**90148**—C. Anthony—*For Gaff Top Sails.*



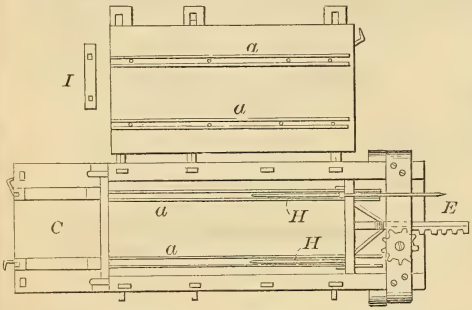

**90149**—D. S. Bigler—*Horse Hay Fork.*



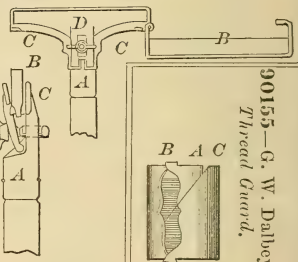

**90151**—Bond & Wroath—*Screw Plate.*




**90152**—A. P. Boren—*Baling Press.*

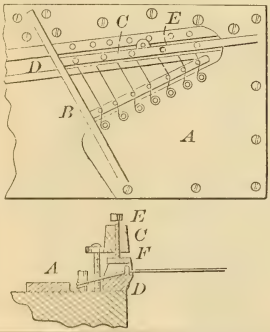



**90153**—G. E. Brettell—*Mop Head.*

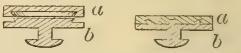



**90155**—G. W. Dalbey—*Thread Guard.*

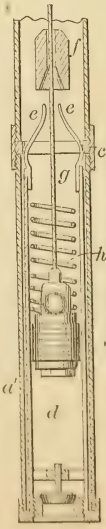
**90150**—Bloomfield & Otis—*Piano Forte.*



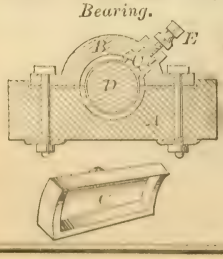

**90154**—W. Byron—*Ornamental Articles.*



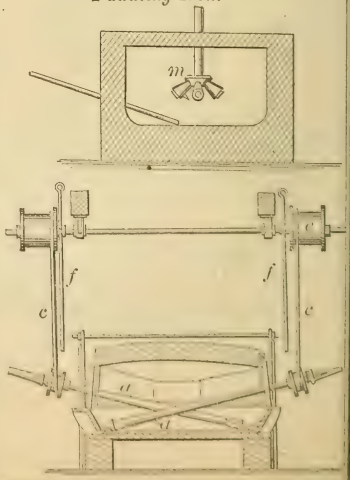

**90157**—Devirs & Gravatt—*Tube Well Pump.*



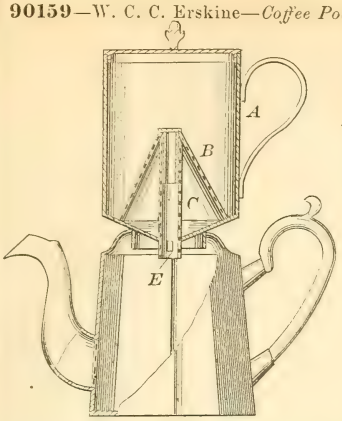

**90156**—R. Daniels—*Shaft Bearing.*



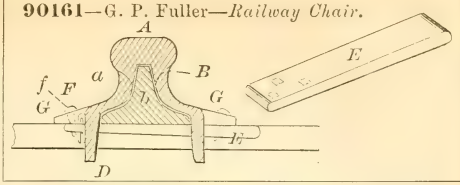

**90158**—P. A. Dormoy—*For Puddling Iron.*



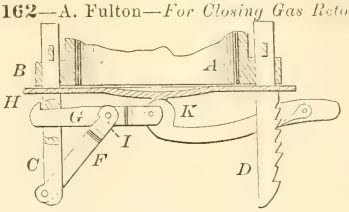
**90159**—W. C. C. Erskine—*Coffee Pot.*



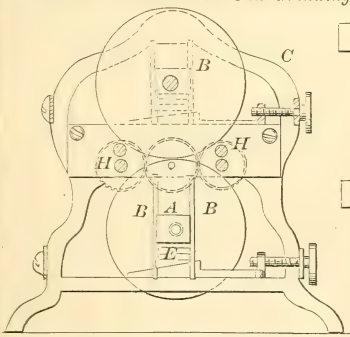

**90161**—G. P. Fuller—*Railway Chair.*

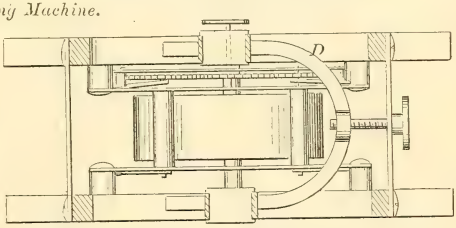



**90162**—A. Fulton—*For Closing Gas Retorts.*

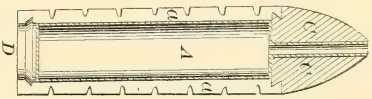



**90163**—T. Gamble—*Saw Grinding Machine.*

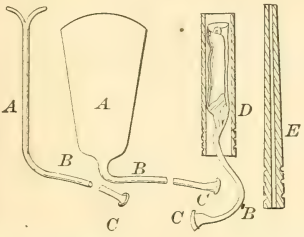


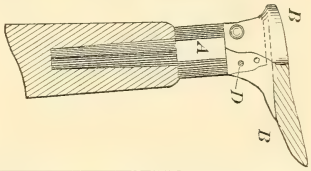

**90164**—T. D. Gibson—*Projectile.*



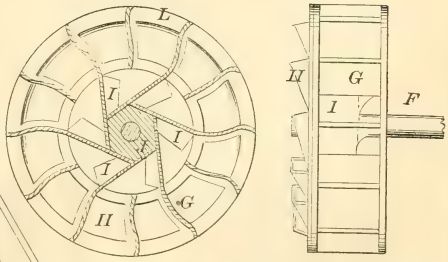

**90166**—C. R. Gorgas—*Pessary.*



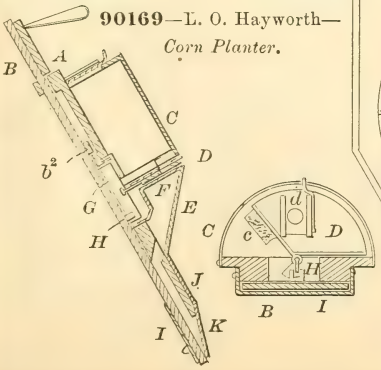

**90165**—J. Godfrey—*Iron Last.*



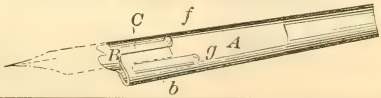

**90167**—T. G. Hall—*Water Wheel.*



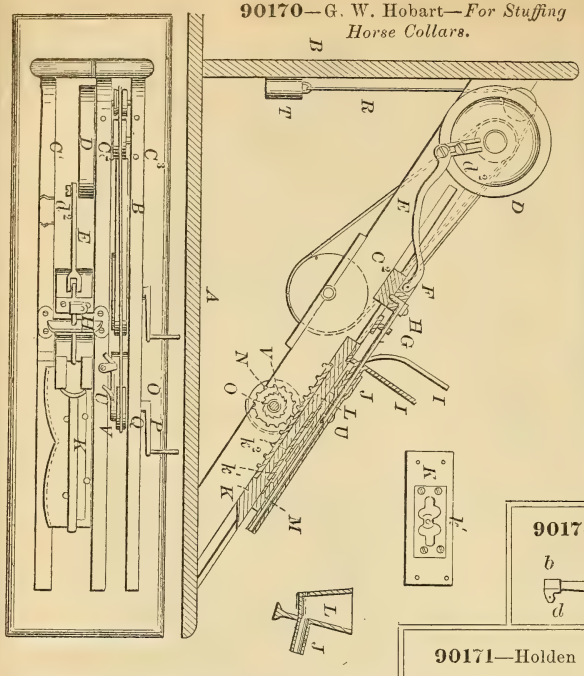

**90169**—L. O. Hayworth—*Corn Planter.*



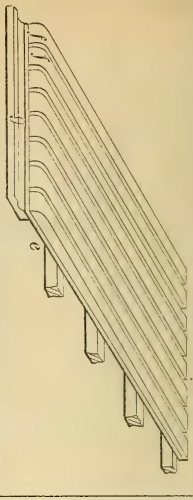

**90168**—G. Harrison—*Pen Holder.*



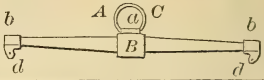
**90170**—G. W. Hobart—*For Stuffing Horse Collars.*



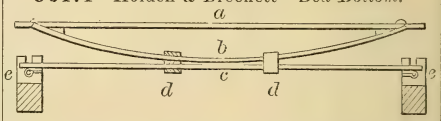
**90172**—J. Hollingsworth—*Horse Stall Floor.*



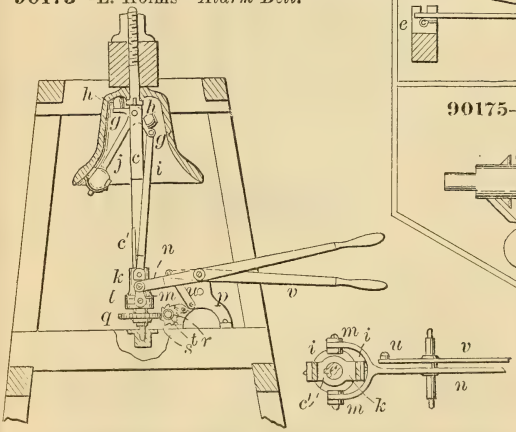
**90174**—W. Hull—*Neck Yoke.*



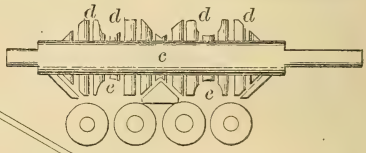

**90171**—Holden & Brockett—*Bed Bottom.*



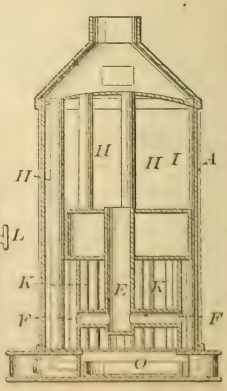

**90173**—L. Holms—*Alarm Bell.*



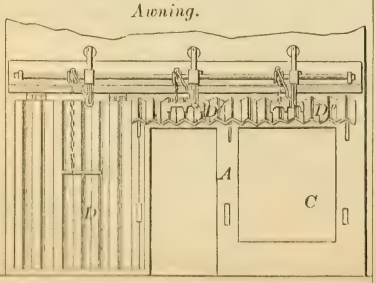
**90175**—W. D. Jones—*Corn Husker.*



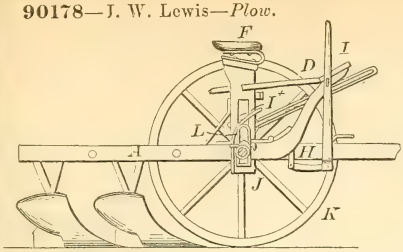

**90176**—J. L. Judge—*Steam Heater.*

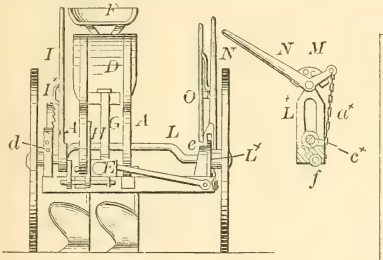


**90177**—R. D. King—*Shutter and Awning.*

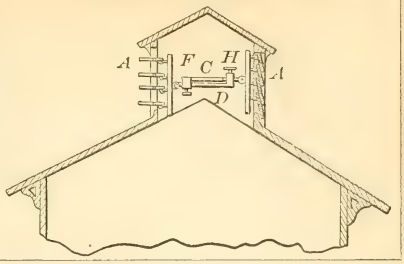


**90178**—J. W. Lewis—*Plow.*

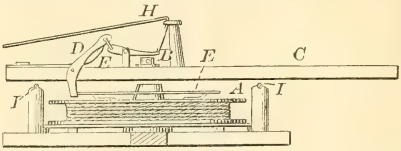


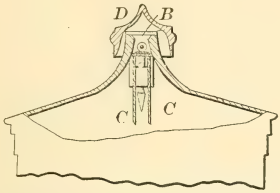

**90180**—M. E. Meade—*Ventilator.*



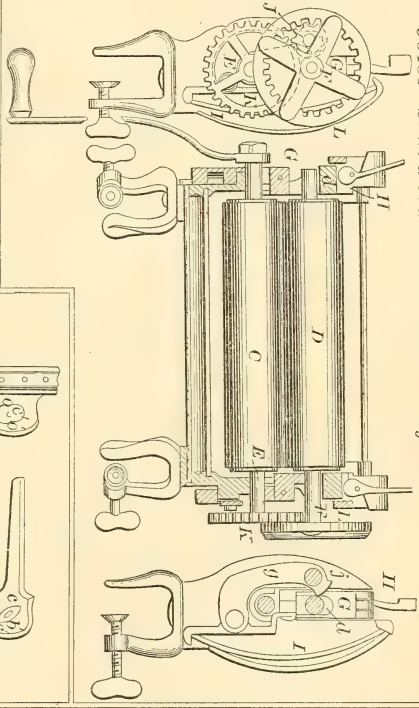

**90182**—Michaels & Croskey—*Horse Power.*



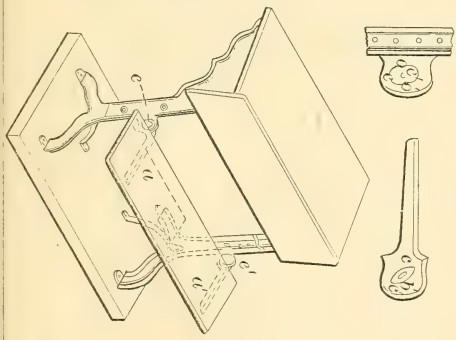

**90181**—T. J. Mell—*Car Ventilator.*



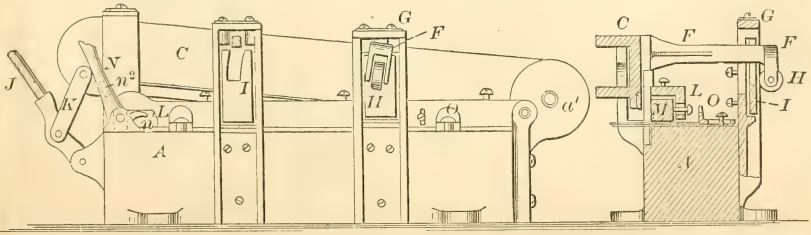

**90185**—S. W. & J. F. Palmer—*Clothes Wringer.*



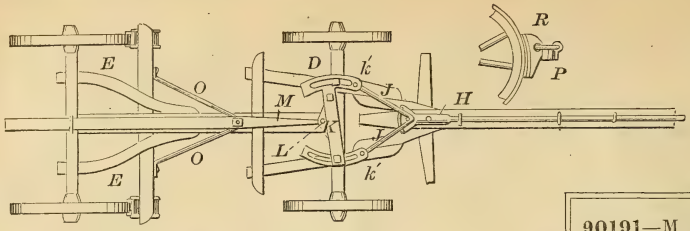

**90183**—D. H. Nation—*Seat.*



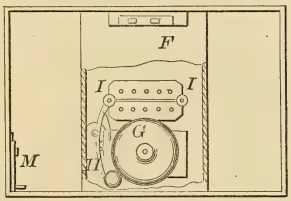

**90184**—J. Nichol—*Shears.*

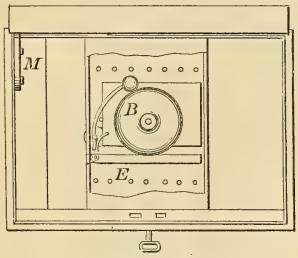


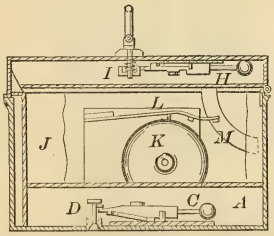
**90186**—A. Peirce—*Wagon Brake.*



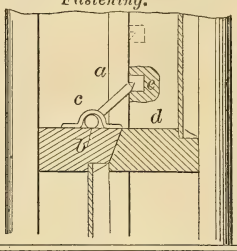

**90187**—J. D. Perkins—*Alarm Cash Box.*



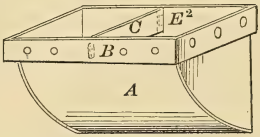



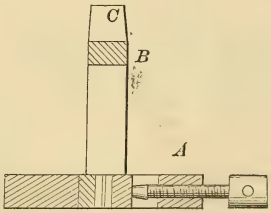

**90188**—C. Perley—*Sash Fastening.*



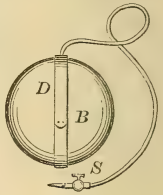

**90189**—J. Pfitzinger—*Elevator Bucket.*



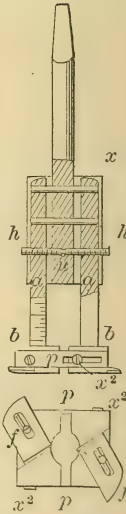

**90190**—A. Phinney—*Die Holder.*



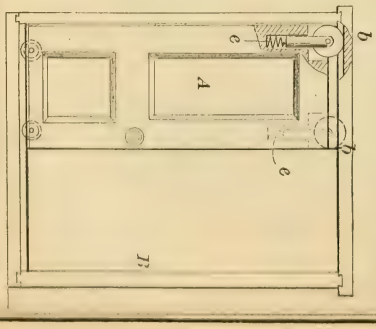

**90191**—M F. Potter—*Abdominal Supporter.*



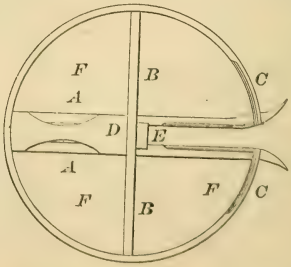

**90195**—H. J. Rickard—*Auger.*



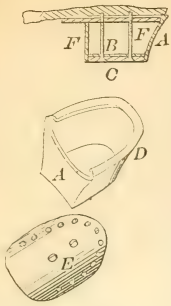

**90193**—Prud'homme & Leprohon—*Door.*



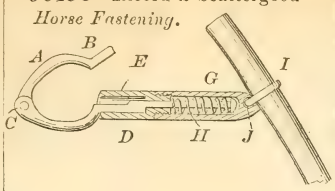

**90194**—B. M Quint—*Fruit Protector.*



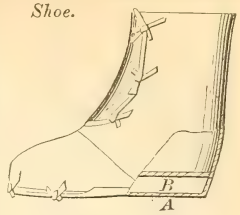
**90192**—M. H. Prescott—*Bed.*



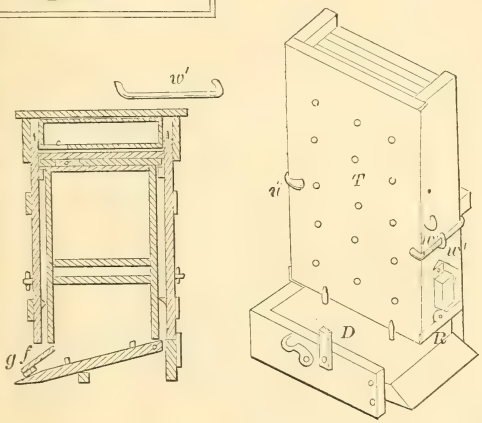

**90196**—Ricord & Scattergood—*Horse Fastening.*



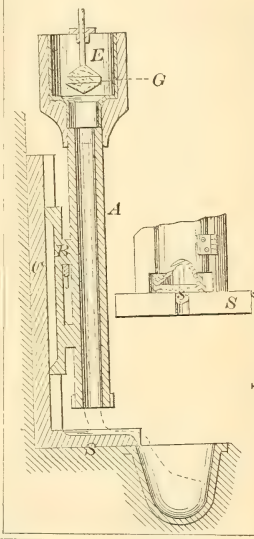

**90197**—W. Rogers—*Heating Shoe.*



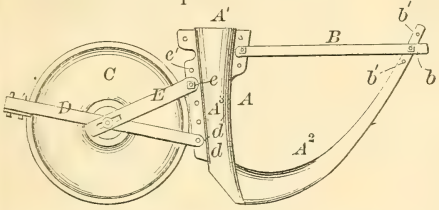

**90199**—N. B. Sebring—*Beehive.*



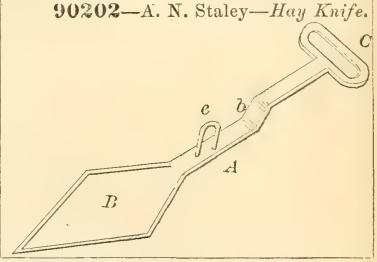

**90201**—J. J. C. Smith—*Casting Metal Pipes.*



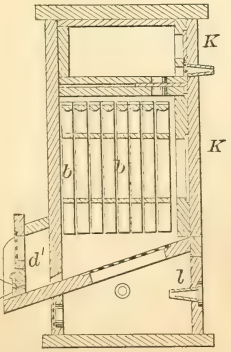

**90200**—H. Shepherd—*Seed Drill.*



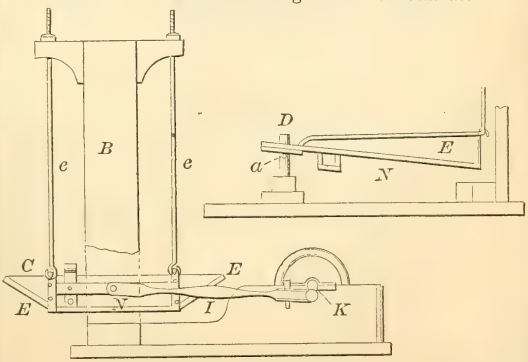

**90202**—A. N. Staley—*Hay Knife.*



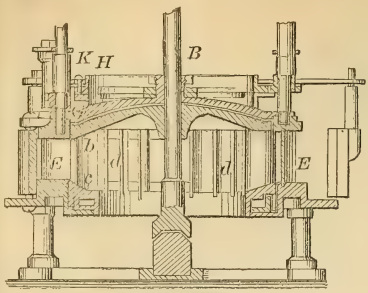

**90203**—R. P. Starbuck—*Beehive.*

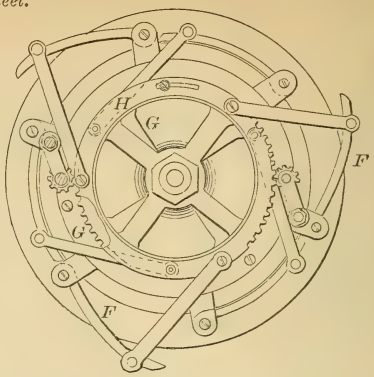


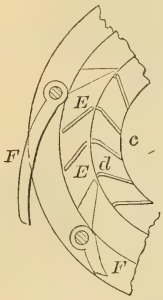

**90205**—G. W. & W. L. Strong—*Ore - Concentrator*



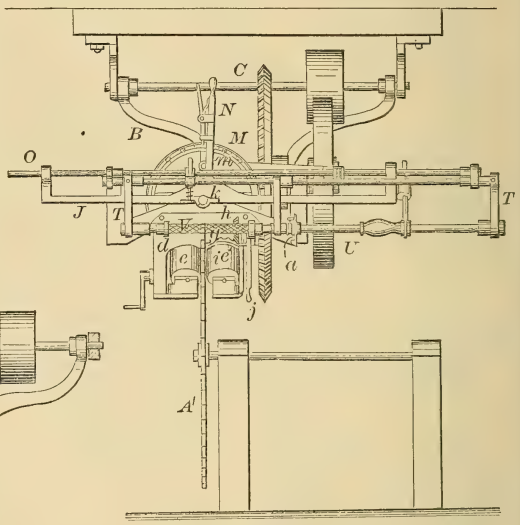
**90204**—G. C. & J. F. Stevens—*Water Wheel.*

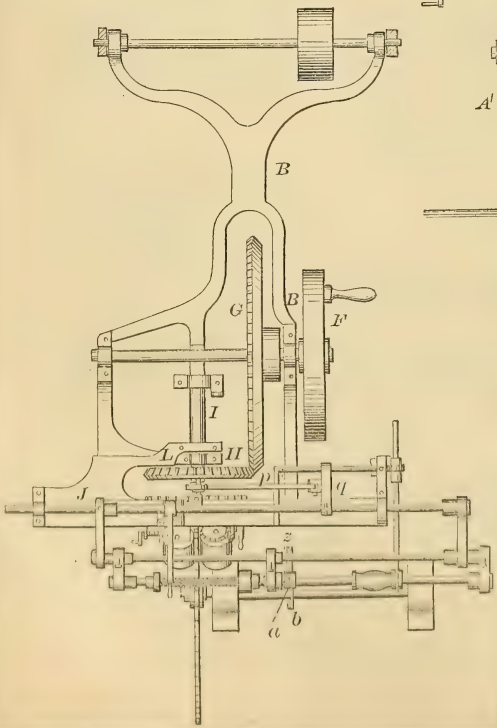


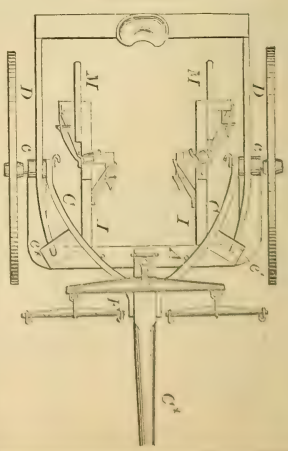




**90207**—A. Thompson—*Saw Filing Machine.*

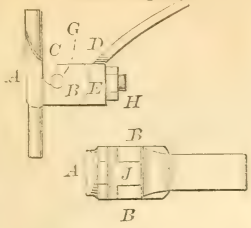


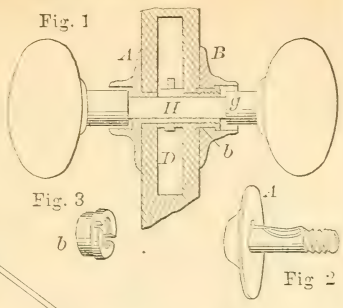

**90208**—H. Van Meter—*Cultivator.*



**90206**—C. E. Sweney—*Thill Coupling.*

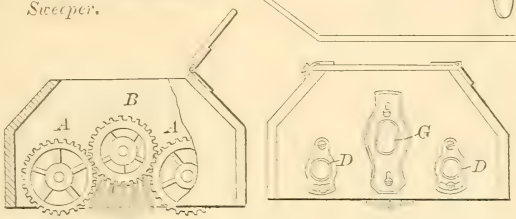



**90209**—Waterman & Porter—*Attaching Roses to Door Knobs.*

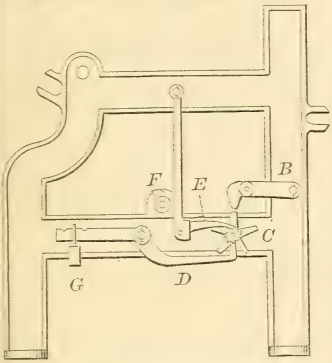



**90213**—H. O. Winsor—*Snatch Block.*

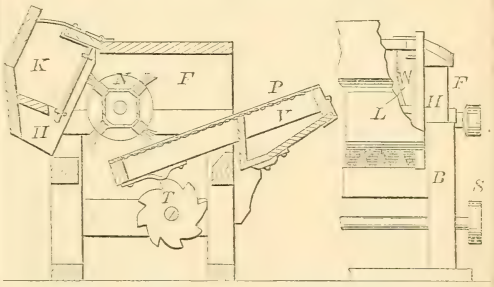
**90211**—O. H. Weed—*Carpet Sweeper.*



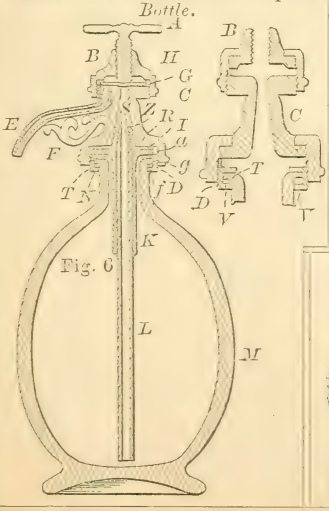

**90212**—W. Whiteside—*Loom.*



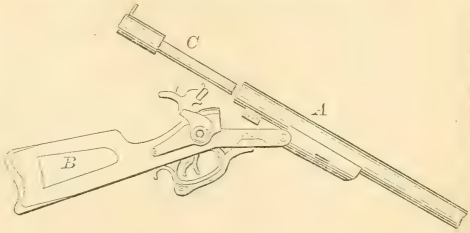

**90210**—J. W. Webb—*Cotton Gin.*



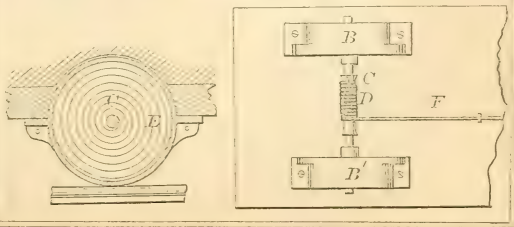

**90215**—J. B. Alexander—*Siphon Bottle.*



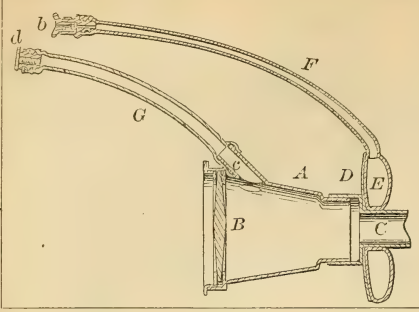

**90214**—F. Wohlgemuth—*Fire Arm.*



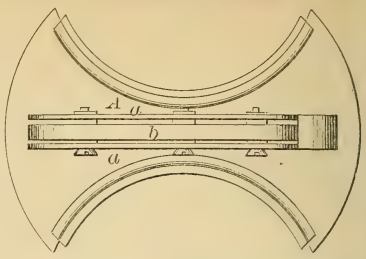

**90216**—W. P. Anderson—*Car Connection.*



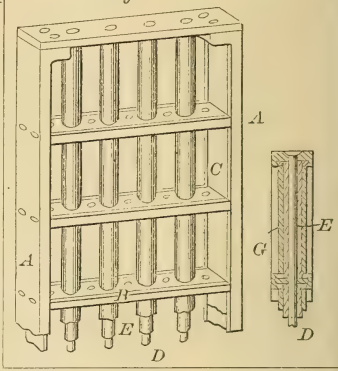
**90217**—B. H. Aylworth—*Vaginal Speculum.*



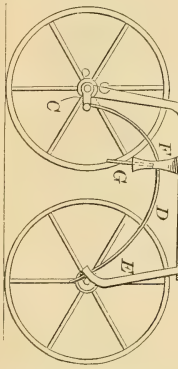

**90218**—R. Bailey—*For Stoves.*



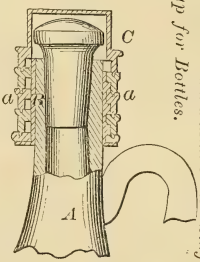

**90219**—T. F. Baker—*Prison Grating.*



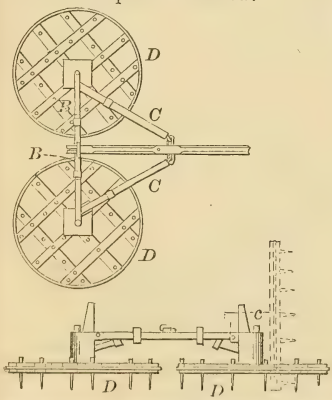

**90220**—Baldwin & Miller—*Velocipede.*



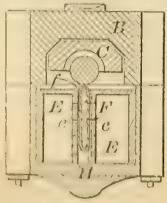

**90221**—L. M. Ballard—*Locking Cap for Bottles.*



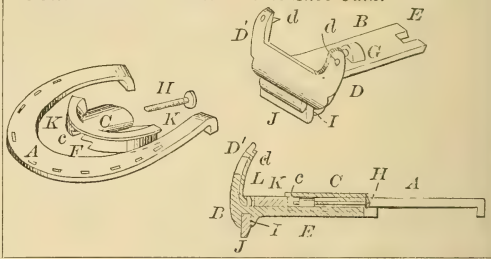

**90222**—Bartholomew & Chapman—*Harrow.*



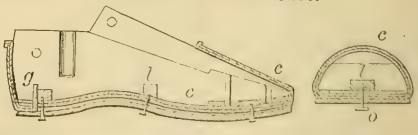

**90223**—Bergner & Netzow—*Lubricator.*



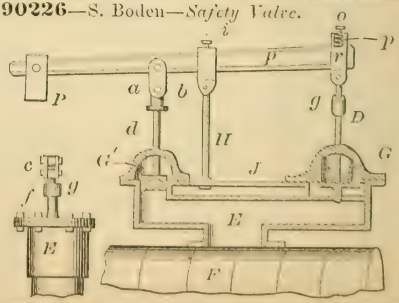

**90224**—W. J. Berne—*Horse Shoe Calk.*



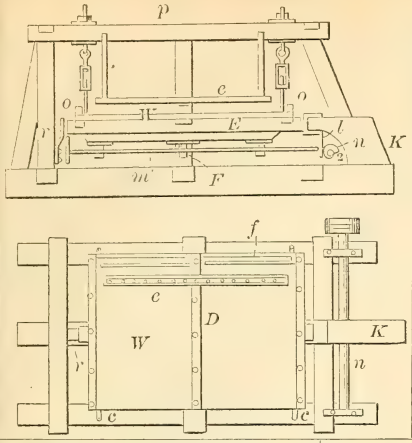

**90225**—L. R. Blake—*Boot and Shoe.*

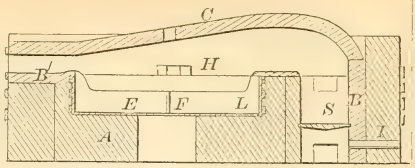



**90226**—S. Boden—*Safety Valve.*



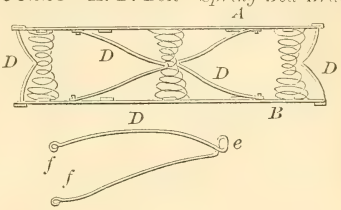
**90227**—R. Boehm—*Ore Washer.*



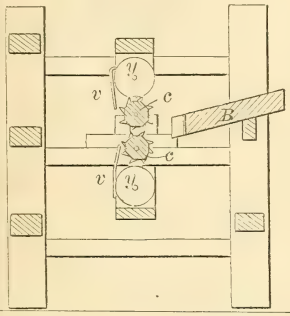




**90228**—R. Boehm—*Smelting Furnace.*

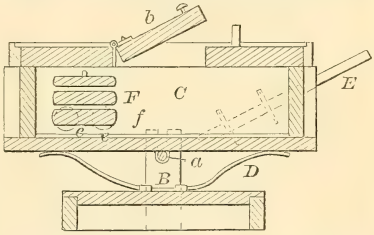
**90229**—H. D. Bolt—*Spring Bed Brace*



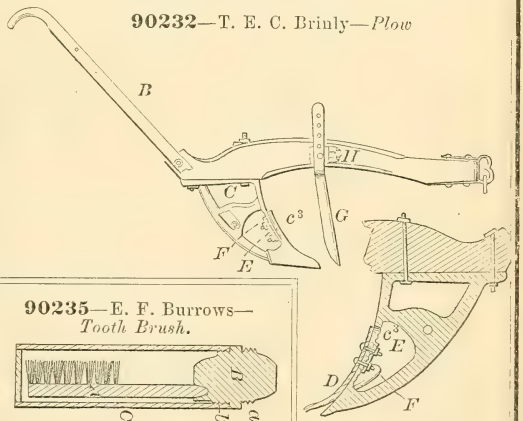

**90230**—D. Brookwalter—*Corn Husker.*



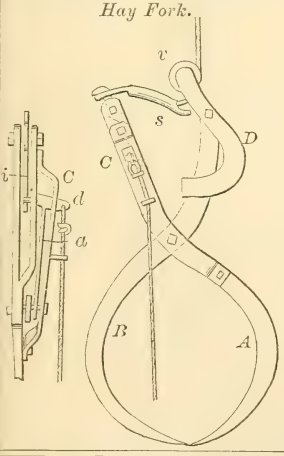

**90231**—G. Bradshaw—*Washing Machine.*




**90232**—T. E. C. Brinly—*Plow*



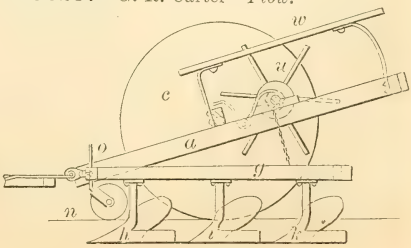

**90233**—A. S. Brown—*Horse Hay Fork.*



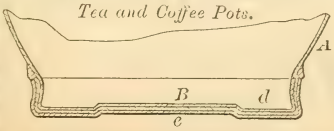

**90235**—E. F. Burrows—*Tooth Brush.*



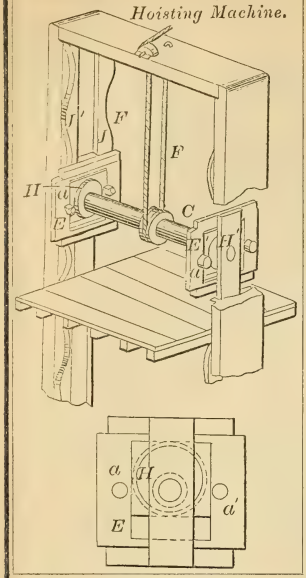
**90237**—G. R. Carter—*Plow.*



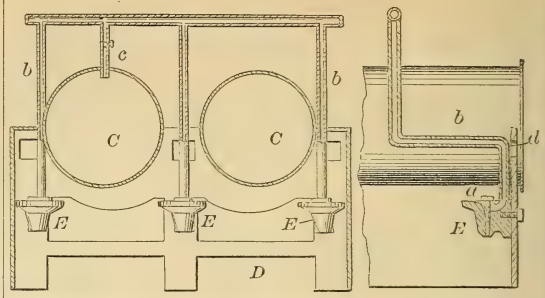

**90234**—Bullard & Holmes—*For Tea and Coffee Pots.*



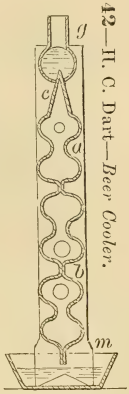
**90236**—M. K. Carpenter—*Hoisting Machine.*



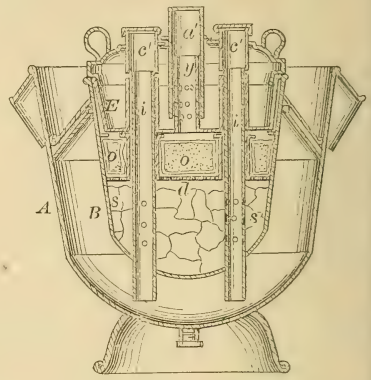

**90239**—E. S. Chase—*Saw Dust Burner.*



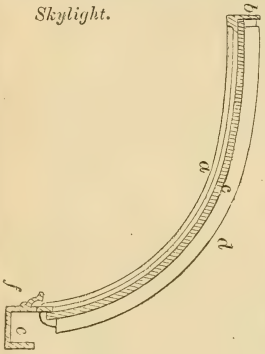

**90242**—H. C. Dart—*Beer Cooler.*



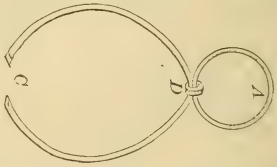

**90238**—J. A. Casey—*Water Purifier and Cooler.*



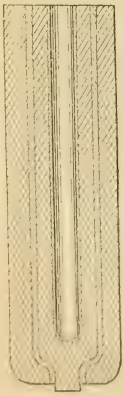

**90240**—J. B. Cornell—*Skylight.*



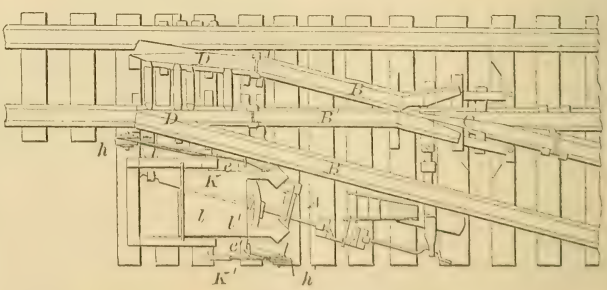

**90243**—A. Day—*Ice Tongs.*

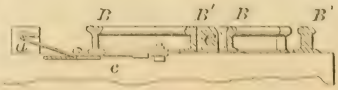



**90244**—S. B. Dean—*Ordnance.*

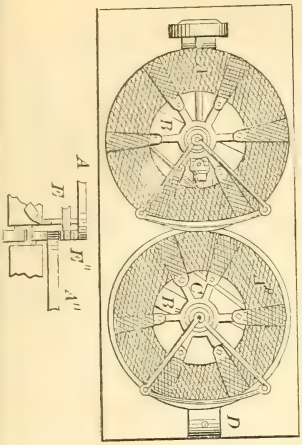


**90241**—T. Daly—*Railroad Switch and Signal.*

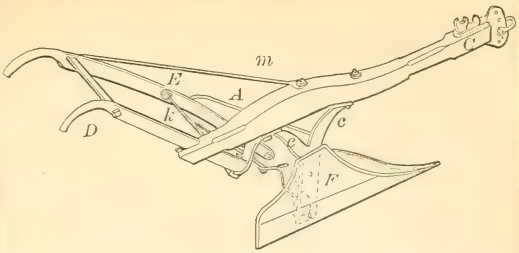


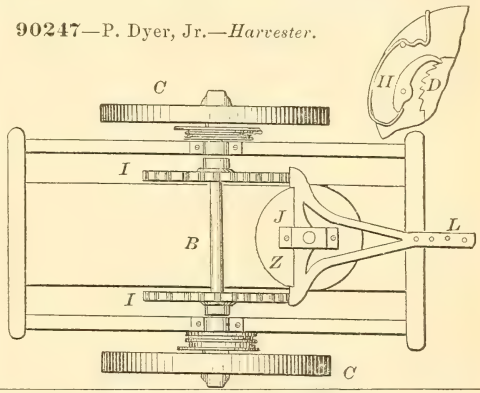
**90245**—J. G. Dillaha—*Horse Power.*



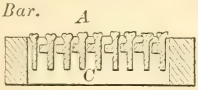

**90246**—H. B. Durfee—*Plow.*



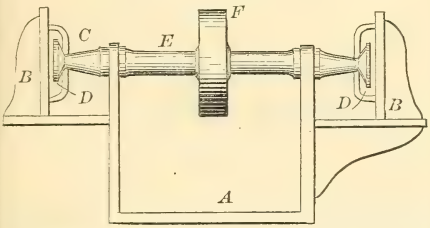

**90247**—P. Dyer, Jr.—*Harvester.*



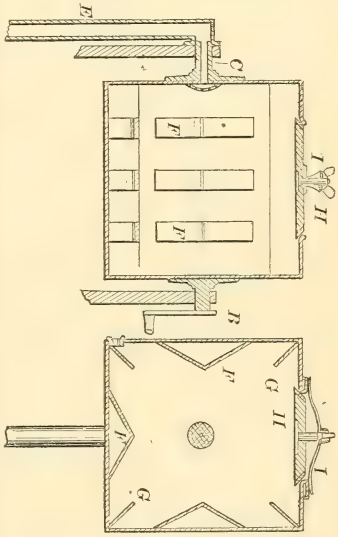

**90248**—G. A. Eyars—*Grate Bar.*



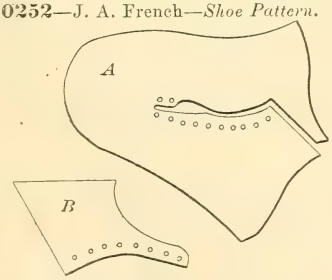

**90249**—D. Eynon—*For Removing Burrs from Railroad Chairs.*



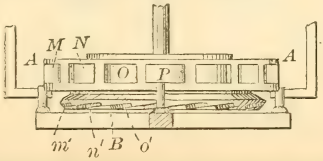

**90250**—J. Fanning—*Washing Machine.*

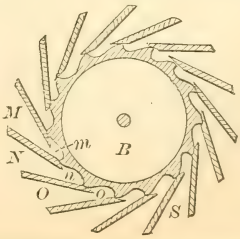



**90252**—J. A. French—*Shoe Pattern.*

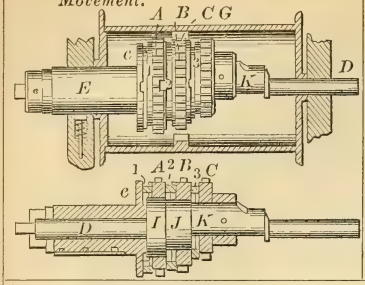



**90251**—Frary & Sherwin—*Water Wheel.*

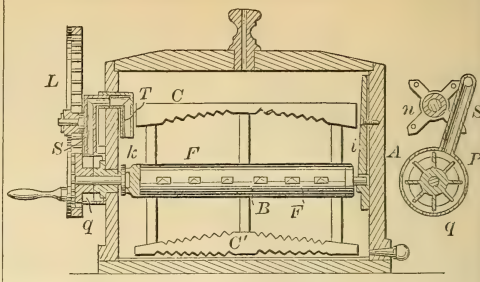


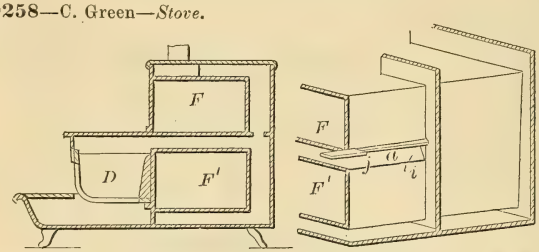
**90254**—E. E. Furney—*Mechanical Movement.*



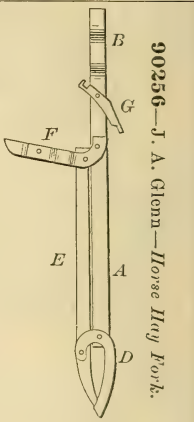

**90255**—Gallup & Hewitt—*Churn.*



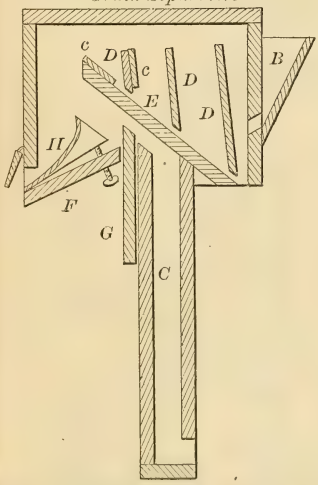

**90258**—C. Green—*Stove.*



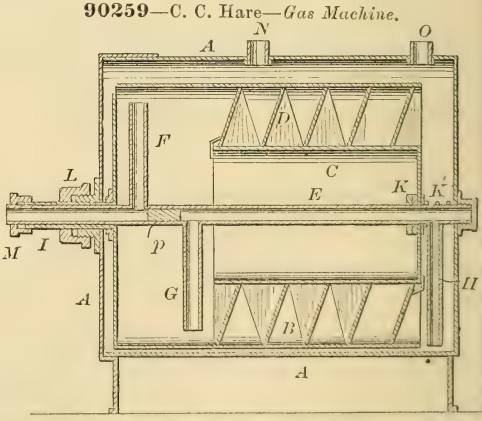

**90256**—J. A. Glenn—*Horse Hay Fork.*



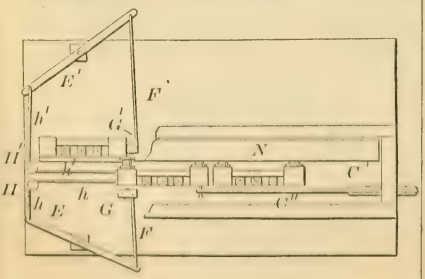

**90260**—G. F. Harlan—*Grain Separator.*



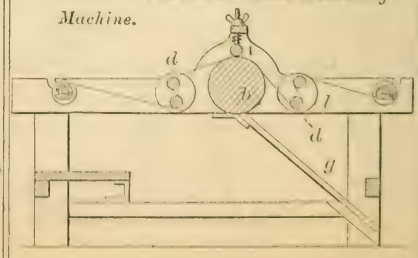

**90259**—C. C. Hare—*Gas Machine.*



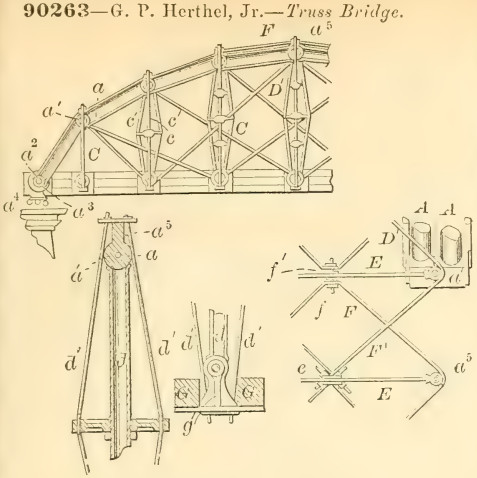

**90261**—H. P. Haskin—*Gate.*



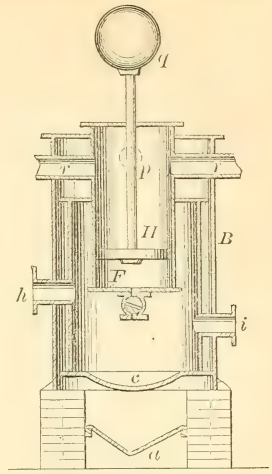

**90262**—W. Hebdon—*Cloth Measuring Machine.*



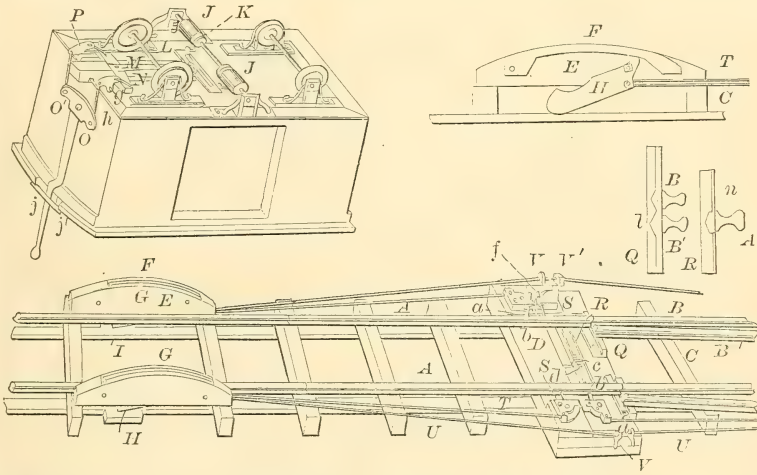
**90263**—G. P. Herthel, Jr.—*Truss Bridge.*



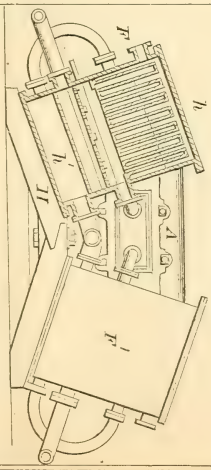
**90265**—J. Houpt—*Steam Engine.*



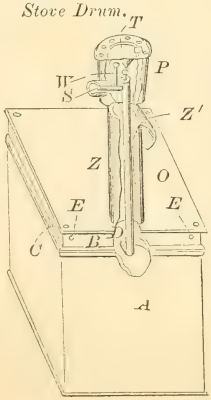
**90264**—A. B. Hitchcock—*Railway Switch.*



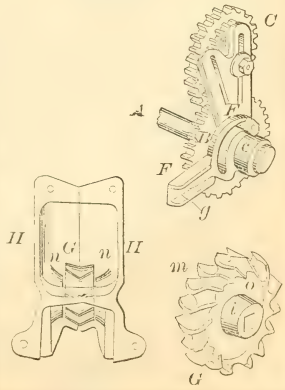
**90266**—J. Houpt—*Steam Engine.*



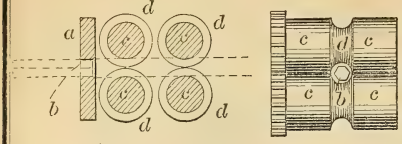
**90267**—R. A. Hunter—*Stove Drum.*



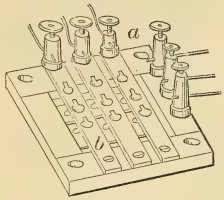
**90268**—J. Ingels—*Seeding Machine.*



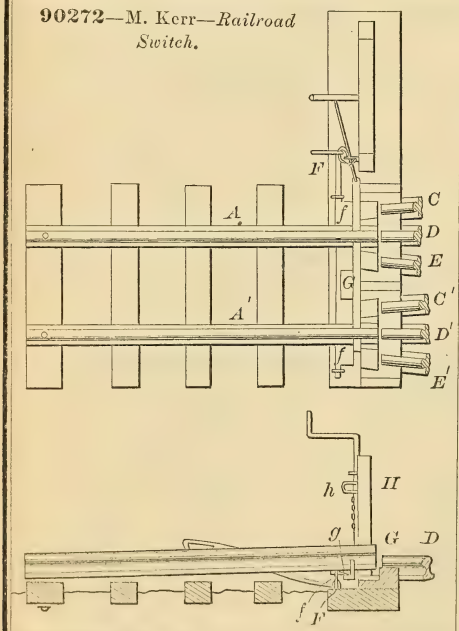
**90269**—F. G. Jenkins—*For Lead Pencils.*



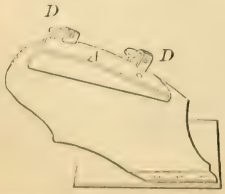

**90270**—C. S. Jones—*Telegraphic Switch Board.*



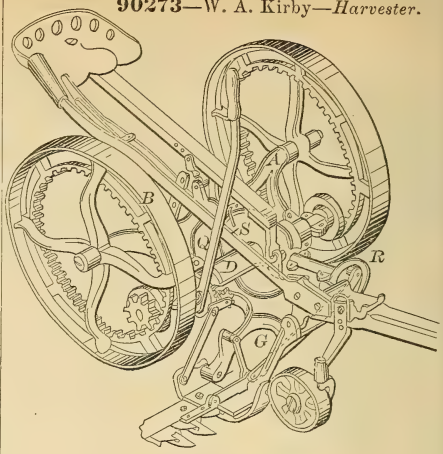

**90272**—M. Kerr—*Railroad Switch.*

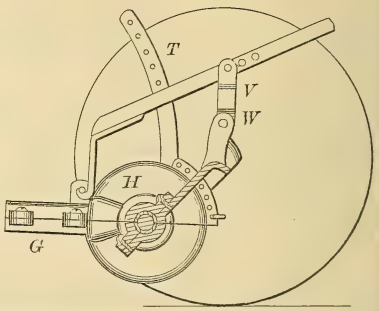



**90271**—I. Kennedy—*Plow.*

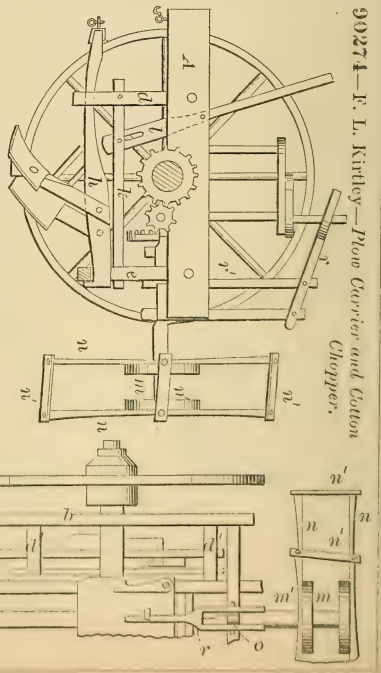



**90273**—W. A. Kirby—*Harvester.*

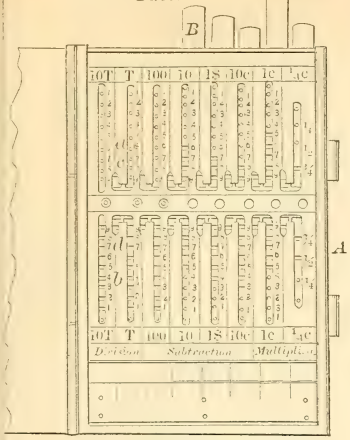


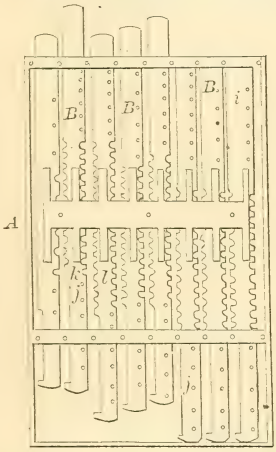




**90274**—F. L. Kirtley—*Plow Carrier and Cotton Chopper.*

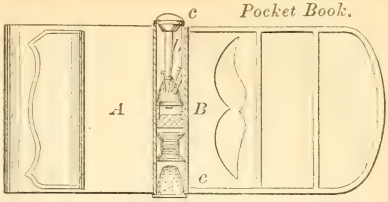


**90275**—H. Kummer—*Computing Tablet.*

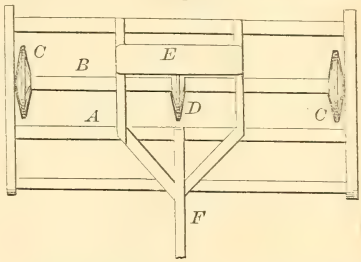


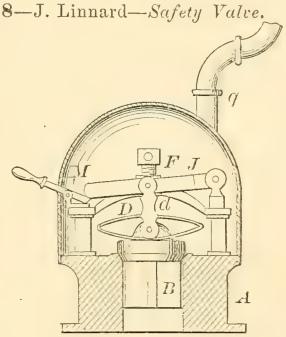

**90276**—P. W. Lambert—*Sewing Case and Pocket Book.*



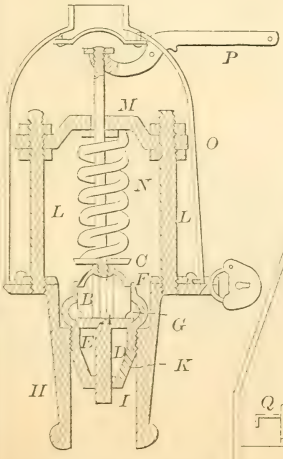

**90277**—S. P. Lionberger—*Ground Marker.*



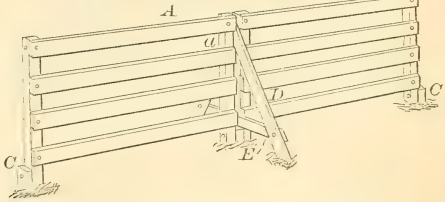

**90278**—J. Linnard—*Safety Valve.*



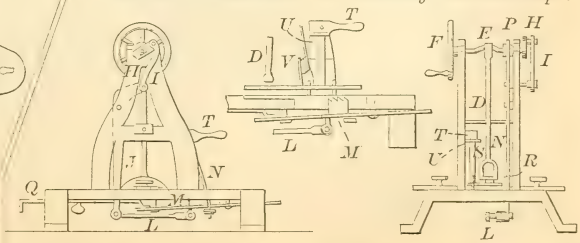

**90279**—J. D. Lynde—*Safety Valve.*



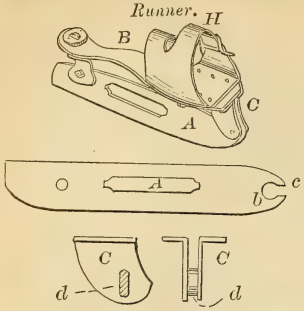

**90280**—R. McFarlane—*Fence.*




**90281**—J. Matheis—*For Punching Leather Straps.*



**90282**—T. T. McGrath—*Skate Runner.*




**90283**—M. Mac Kenzie—*Key Hole Guard.*

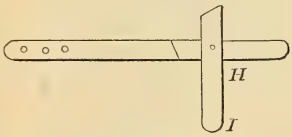
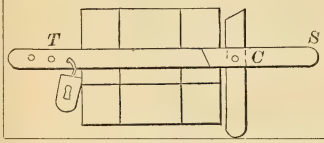
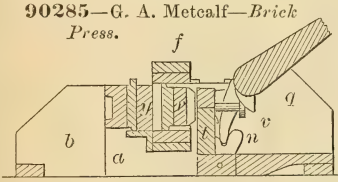


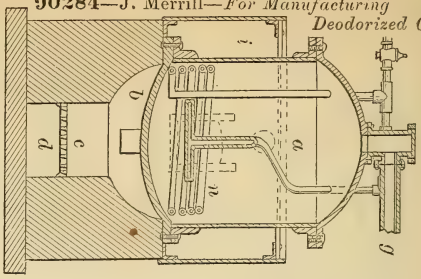

Plate 6



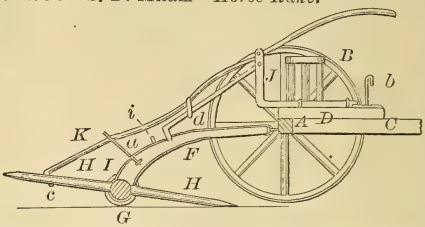

**90285**—G. A. Metcalf—*Brick Press.*



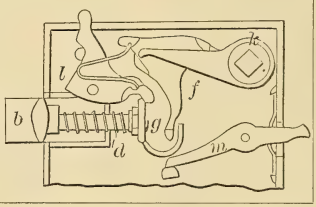

**90284**—J. Merrill—*For Manufacturing Deodorized Oils.*



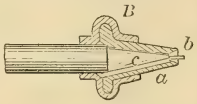

**90286**—S. D. Milam—*Horse Rake.*



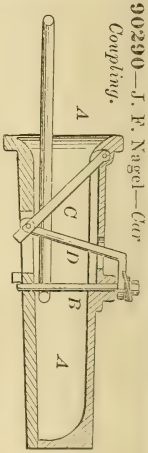

**90288**—W. T. Munger—*Latch.*



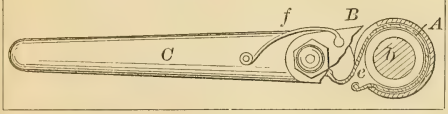

**90289**—L. B. Myers—*Pencil Sharpener.*



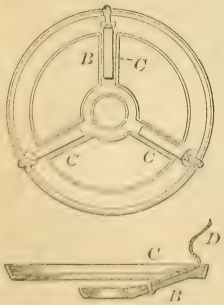

**90290**—J. F. Nagel—*Car Coupling.*



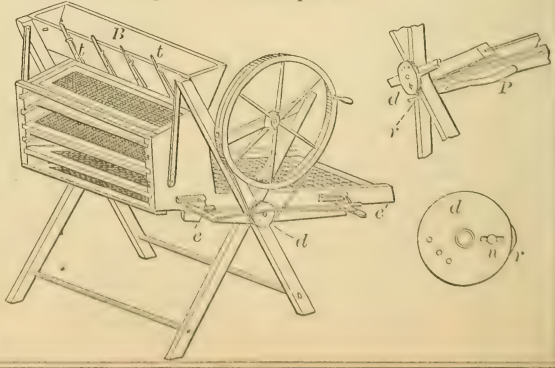

**90292**—S. H. Ostrom—*Hand Drill.*



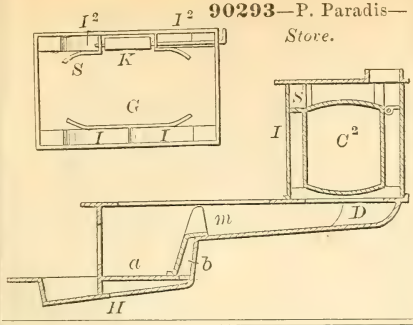

**90287**—C. M. Mitchell—*Lamp Shade Holder.*



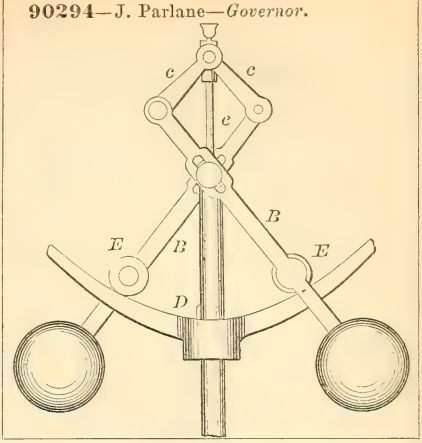

**90291**—H. Ogborn—*Grain Separator.*



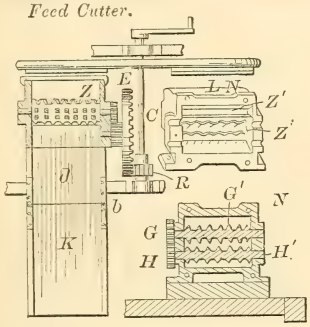
**90293**—P. Paradis—*Store.*



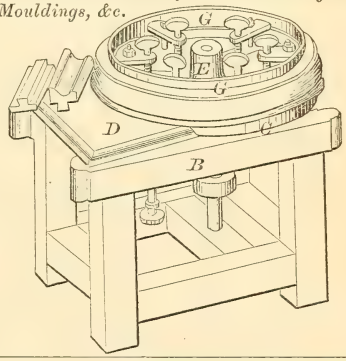

**90294**—J. Parlane—*Governor.*



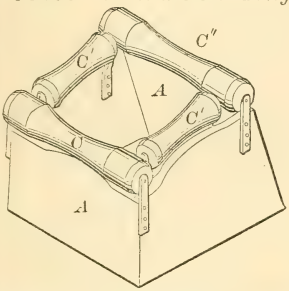

**90295**—G. Pedersen—*Straw and Feed Cutter.*



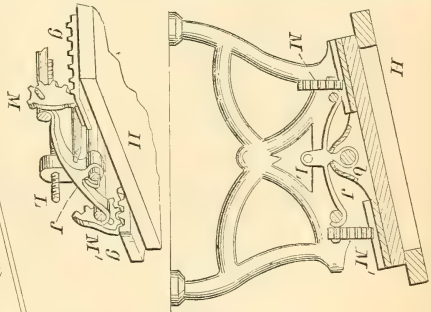

**90296**—B. C. Perry—*For Polishing Wood Mouldings, &c.*



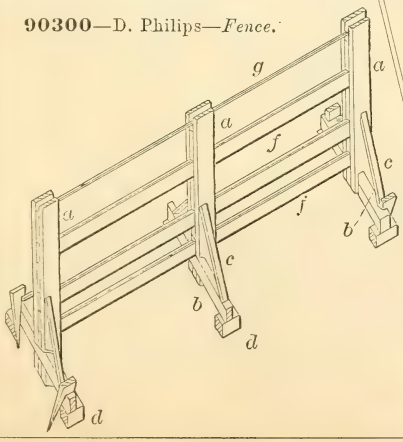

**90298**—Peters & Clem—*Privy Seat.*



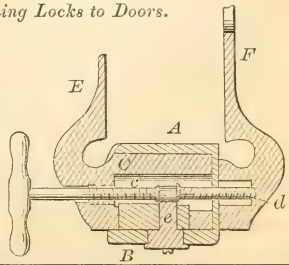

**90297**—Perry & Billings—*Car Seat.*



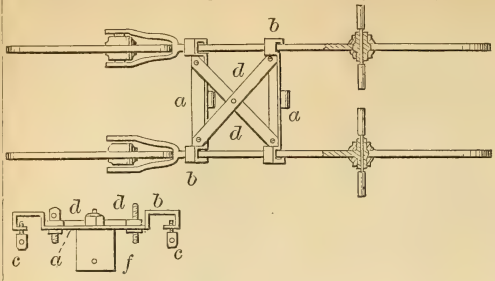

**90300**—D. Philips—*Fence.*



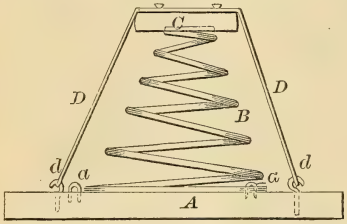

**90299**—F. P. Pfleghar—*Guide for Fitting Locks to Doors.*



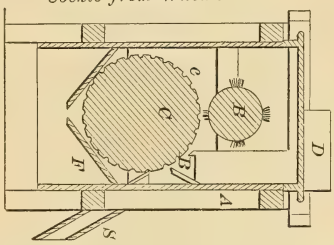
**90302**—W. H. Racey—*For Connecting Velocipedes.*



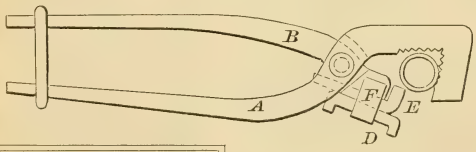

**90303**—C. D. Read—*Bed Bottom.*



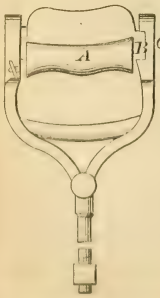

**90306**—G. H. Rich—*For Separating Cockle from Wheat.*

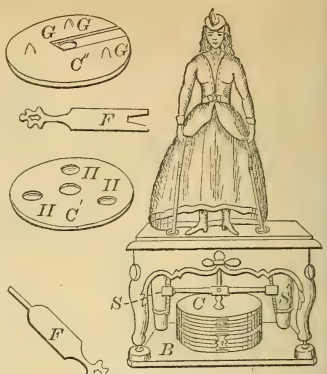


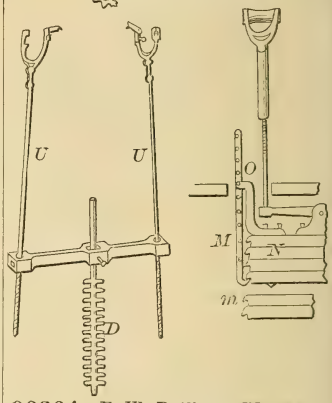

**90307**—B. Riley—*Pipe Tongs.*




**90305**—F. W. Reilly—*Handle for Weight Lifting Apparatus.*

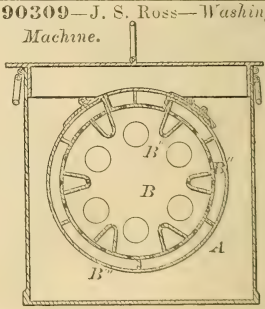


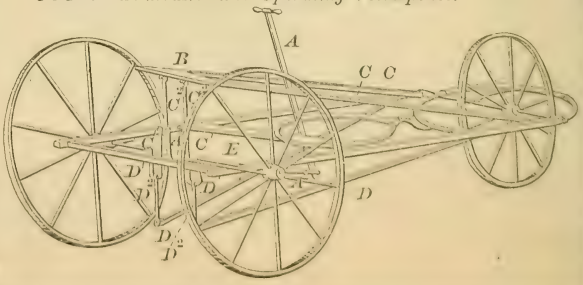




**90304**—F. W. Reilly—*Weight Lifting Apparatus.*

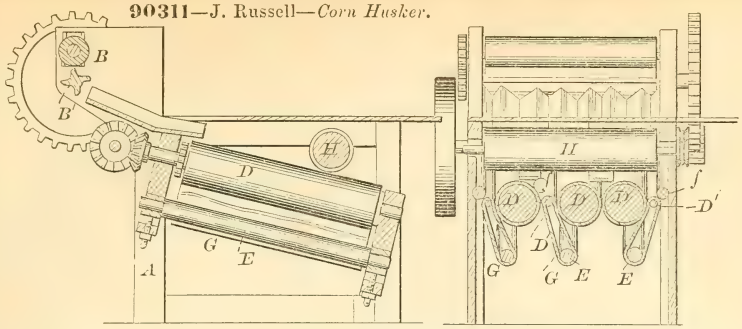
**90309**—J. S. Ross—*Washing Machine.*



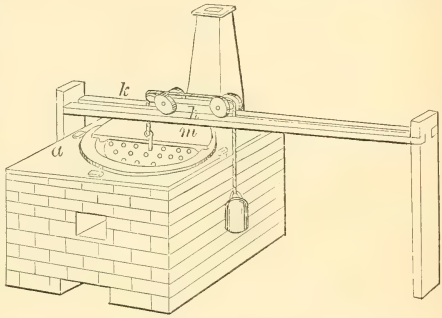

**90310**—F. Rourk—*For Operating Velocipedes.*



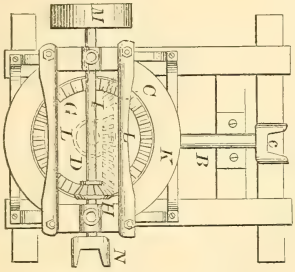
**90311**—J. Russell—*Corn Husker.*



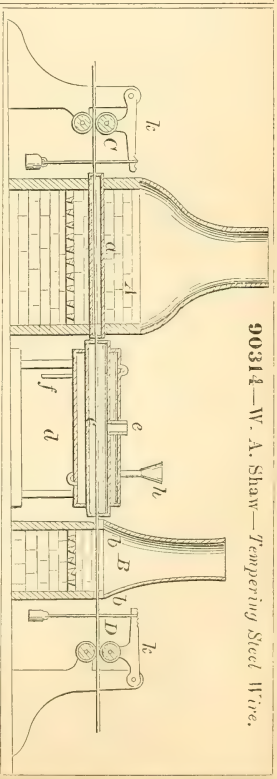

**90313**—W. A. Shaw—*Converting Iron into Steel.*



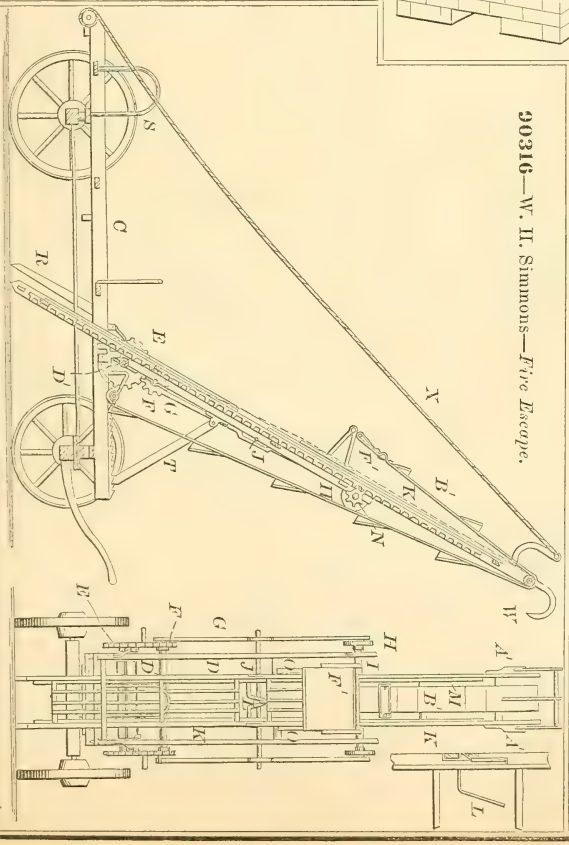

**90315**—I. Sherck—*Jack for Threshing Machines.*



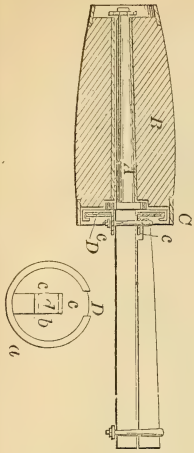

**90314**—W. A. Shaw—*Tempering Steel Wire.*



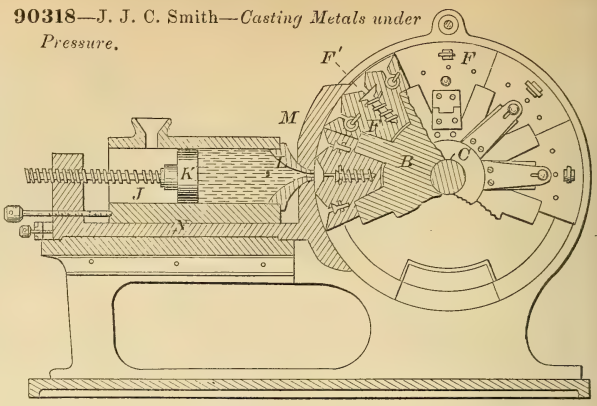

**90316**—W. H. Simmons—*Fire Escape.*



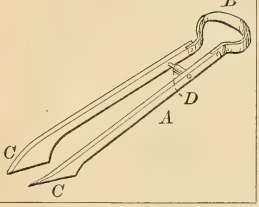
**90317**—J. D. Smith—*Axle.*



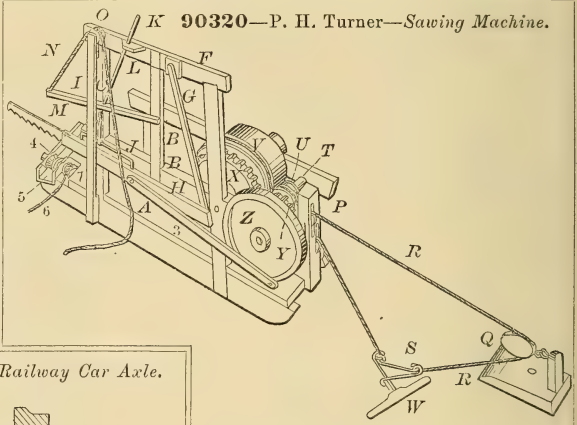

**90318**—J. J. C. Smith—*Casting Metals under Pressure.*



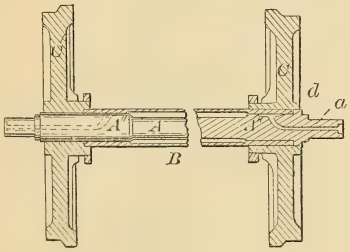

**90319**—W. Somers—*Garden Implement.*



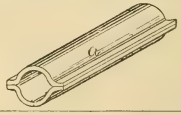

**90320**—P. H. Turner—*Sawing Machine.*



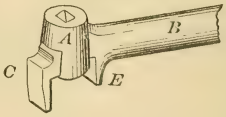

**90321**—J. Van Slooten—*Railway Car Axle.*



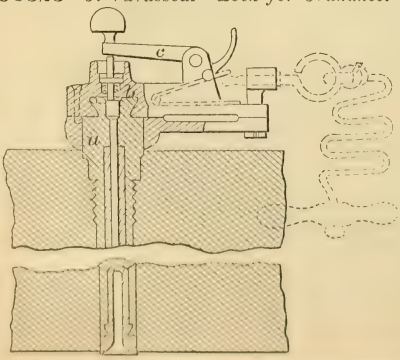

**90322**—S. Vanstone—*Metal Tube.*



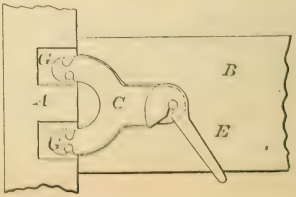

**90326**—D. Wilcox—*Body Loop Head for Carriages*



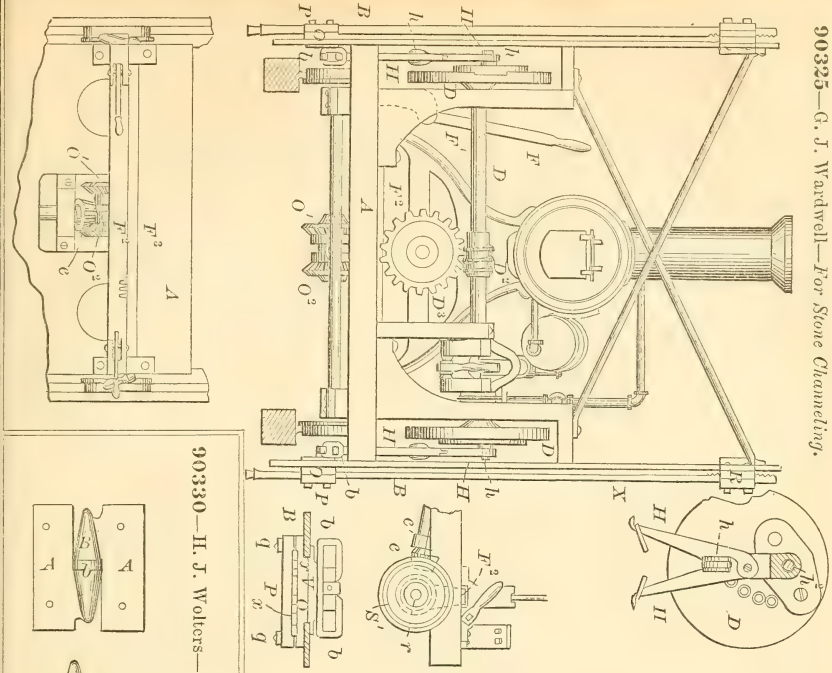

**90323**—J. Vavasseur—*Lock for Ordnance.*



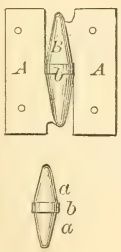

**90329**—H. S. Wing—*Bedstead Fastener.*



**90325**—G. J. Wardwell—*For Stone Channeling.*

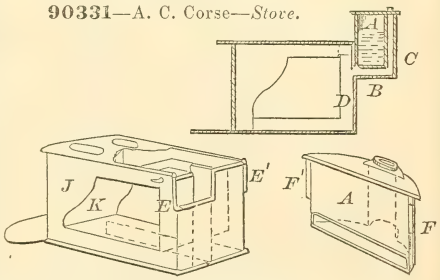


**90330**—H. J. Wolters—*Hinge.*

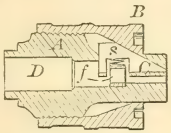


**90335**—J. Beck—*Coloring and Tinting Rubber Goods.*

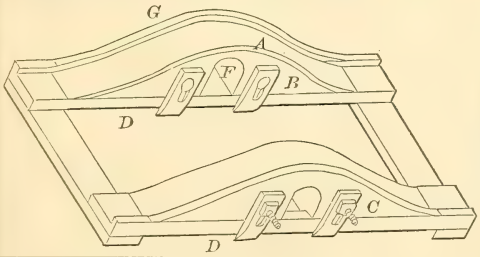
**90331**—A. C. Corse—*Stove.*



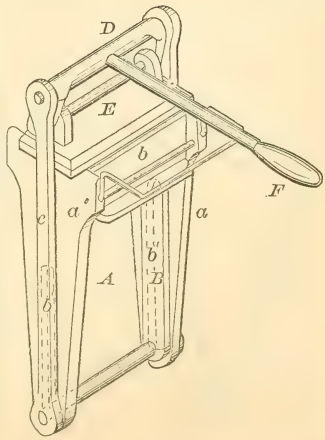
**90338**—G. E. Brettell—*Chuck.*



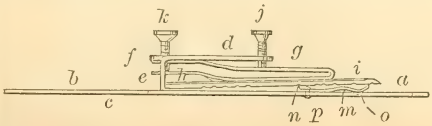
**90336**—J. H. Bellamy—*Railway Hose Protector.*



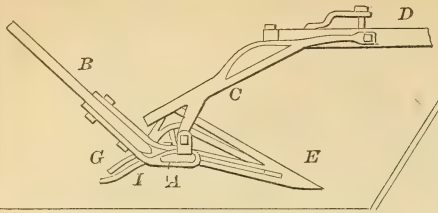
**90339**—T. J. Burke—*Brick Press.*



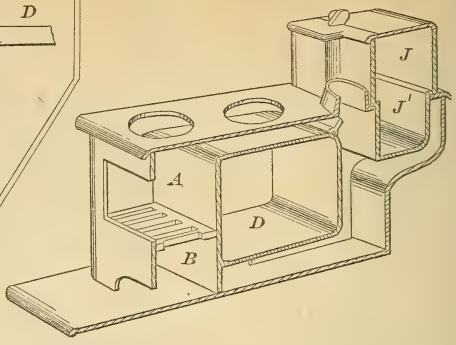
**90340**—G. F. Clemons—*Tuck Creaser and Guide.*



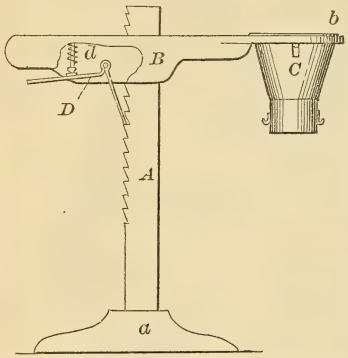
**90341**—I. Cooper—*Potato Digger.*



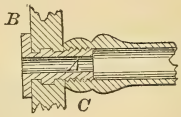

**90342**—E. J. Cridge—*Stove.*



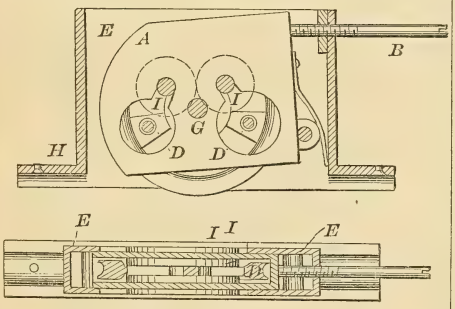

**90344**—G. Dare—*Bag Holder.*



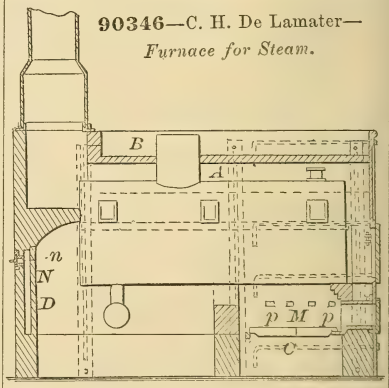

**90343**—G. T. Dalton—*Faucet.*



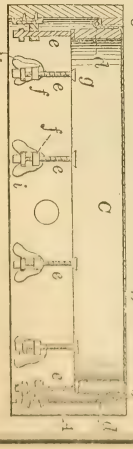

**90345**—M. L. Decring—*Sliding Door Sheave.*




**90346**—C. H. De Lamater—*Furnace for Steam.*




**90350**—Dobson & McDonnell—*Bag's.*




**90348**—T. Deschamps—*Glove Fastening.*

Fig. 1

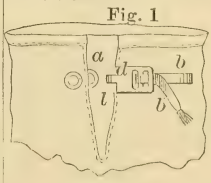



Fig. 8

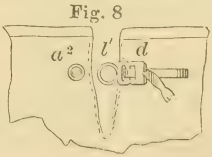



Fig. 12

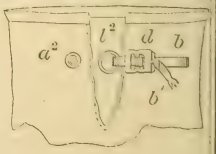



Fig. 2

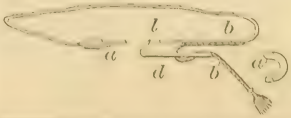
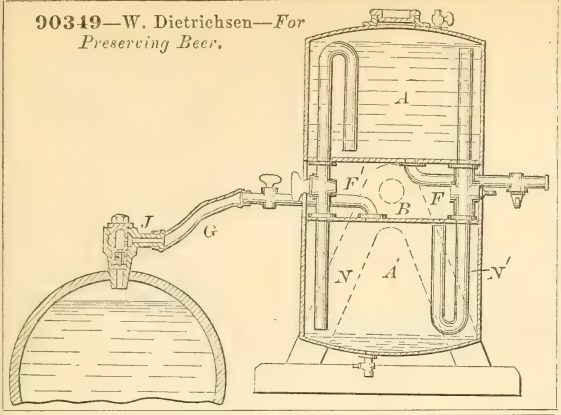
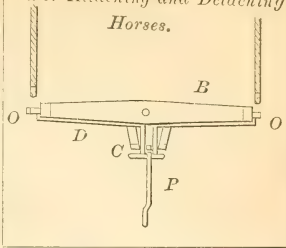



Fig. 9

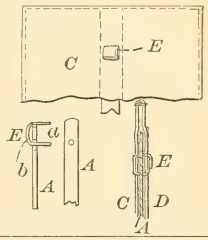
**90349**—W. Dietrichsen—*For Preserving Beer.*



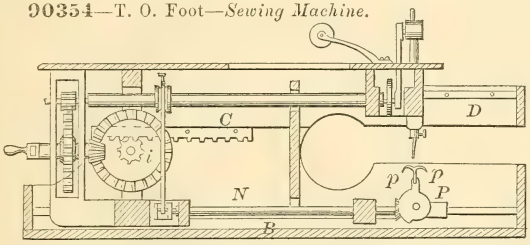

**90352**—G. L. Du Laney—*For Attaching and Detaching Horses.*



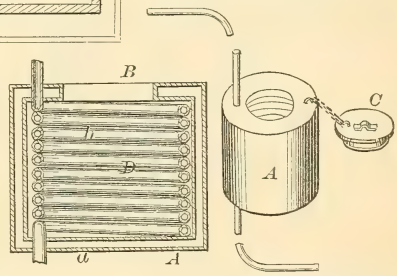

**90353**—D. H. Fanning—*Corset.*



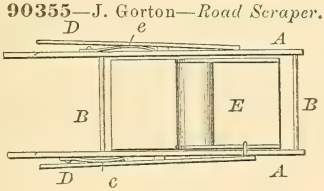

**90354**—T. O. Foot—*Sewing Machine.*




**90360**—R. Heneage—*Ice Preserver and Water Cooler.*




**90355**—J. Gorton—*Road Scraper.*




**90356**—J. W. Graham—*Lamp Post.*

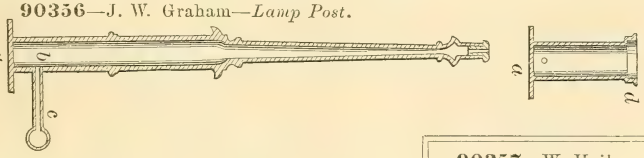
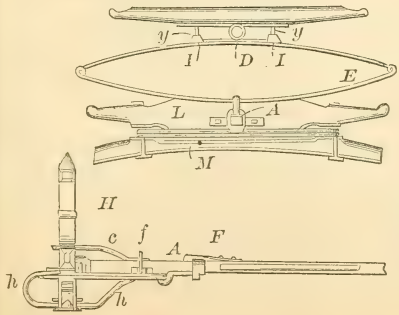
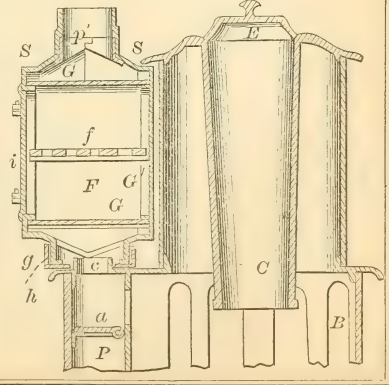



Fig. 3

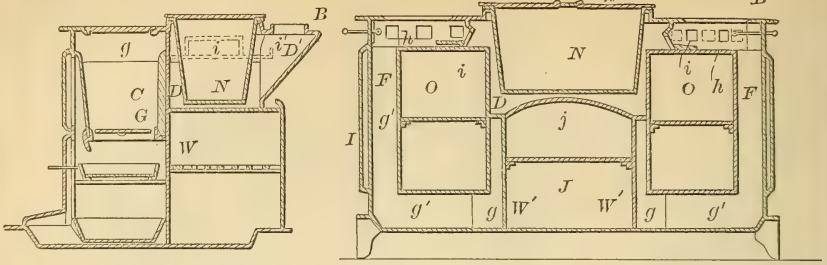
**90351**—J. L. Dolson—*Carriage.*



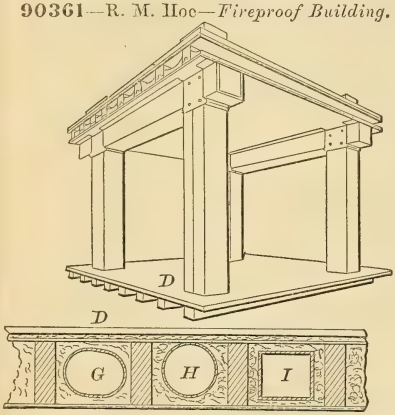

**90357**—W. Hailes—*Stove.*



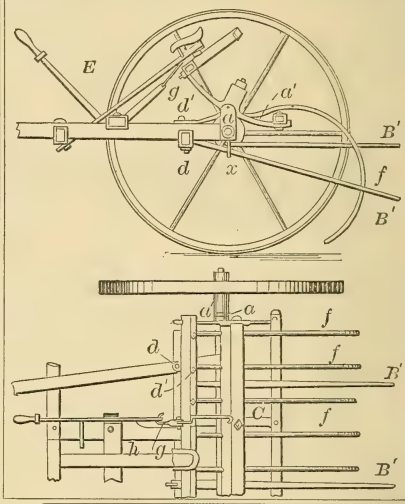
**90358**—W. Hailes—*Stove.*




**90361**—R. M. Hoe—*Fireproof Building.*

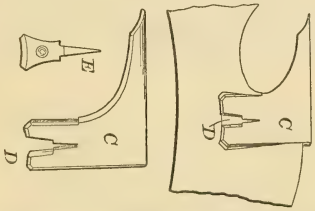



**90362**—J. Hollingsworth—*Horse Rake.*

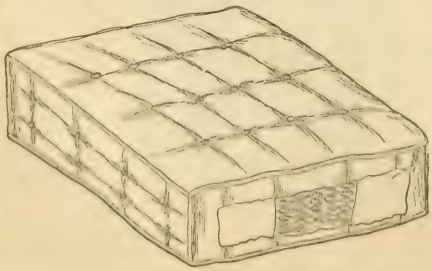



**90364**—E. G. Jelley—*Heddle for Looms.*

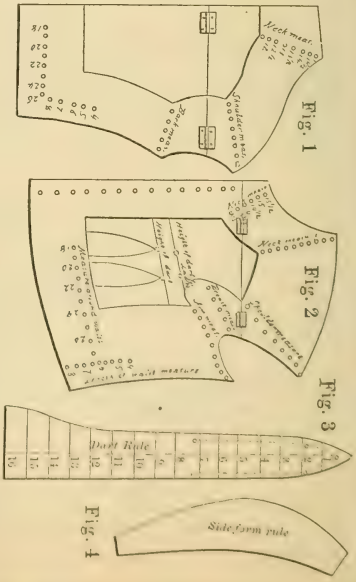
**90365**—J. M. Johnston—*Saw.*



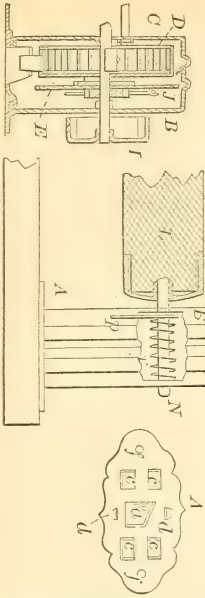

**90368**—E. A. Lane—*Mattress.*



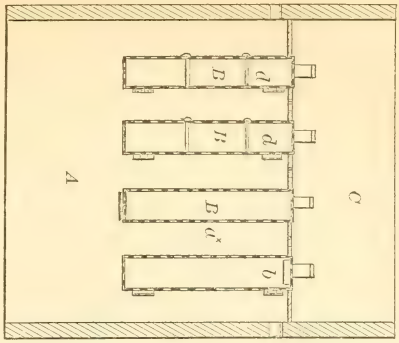
**90363**—L. L. Jackson—*Dress Makers' Measure.*



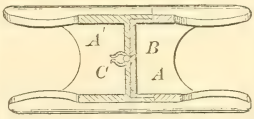
**90366**—A. H. Knapp—*Curtain Fixture.*



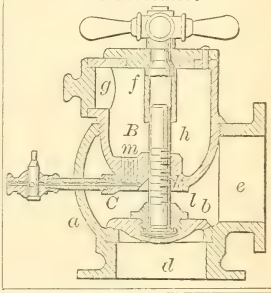
**90369**—M. E. Lloyd—*Fruit Dryer.*



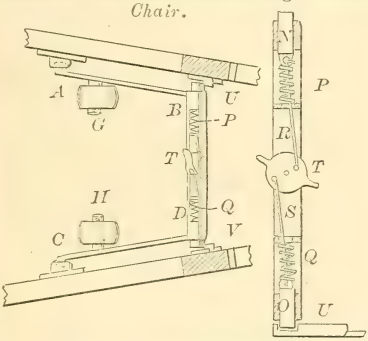
**90374**—M. F. McIntyre—*Horse Collar Fastening*



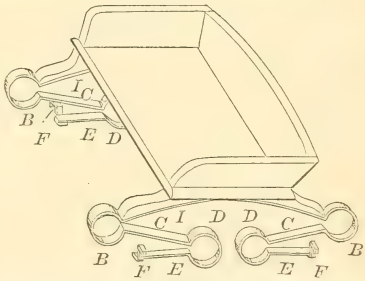
**90371**—J. A. Lynch—*Lubricator.*



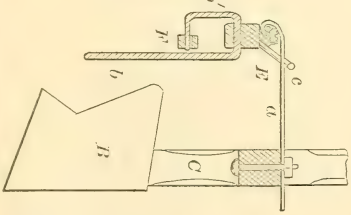
**90370**—Lodeman & Desenberg—*Rocking Chair.*



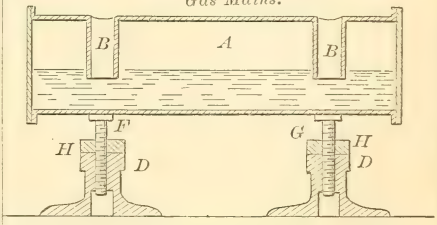
**90375**—G. H. Mittan—*Wagon Seat Spring.*



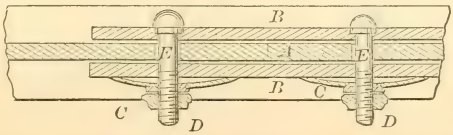
**90376**—W. E. Moore—*Fender for Cultivator Plows.*

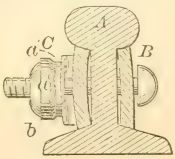


**90379**—P. Munzinger—*Leveling Hydraulic Gas Mains.*

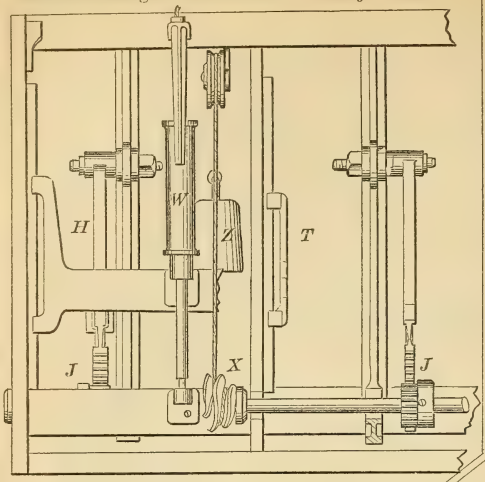


**90377**—W. Morehouse—*Locking Nut.*

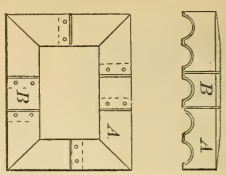




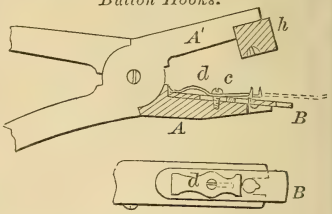
**90378**—Morgan & McMullan—*Roving Frame.*



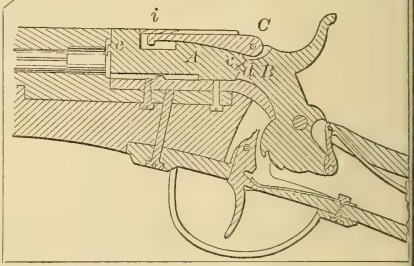

**90380**—E. Myrick—*Chimney Cap.*



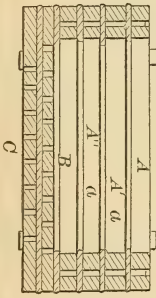

**90382**—J. S. Palmer—*For Setting Button Hooks.*



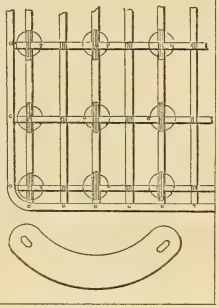

**90381**—J. D. S. Newell—*Fire Arm.*



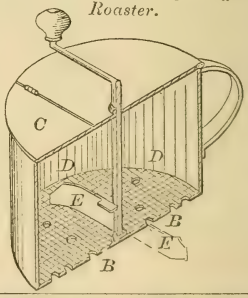

**90383**—Parkman & Trussell—*Filter.*



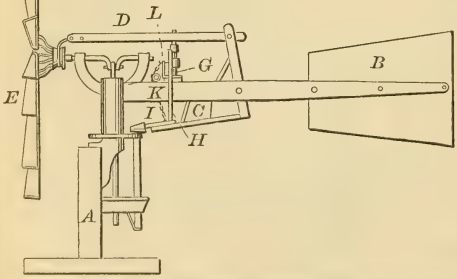

**90384**—J. F. Peck—*Bed Bottom.*



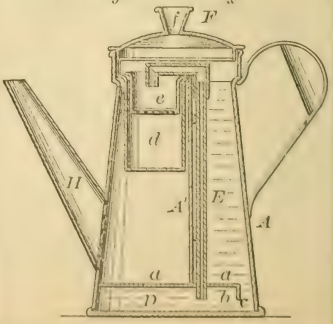
**90386**—H. W. Persing—*Coffee Roaster.*



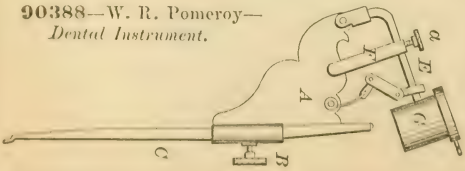

**90385**—W. Peck—*Wind Wheel.*



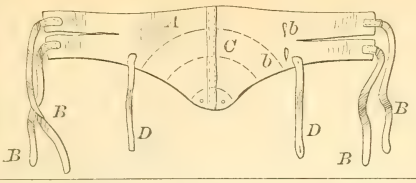

**90387**—Persing & Pease—*For Making Tea and Coffee.*



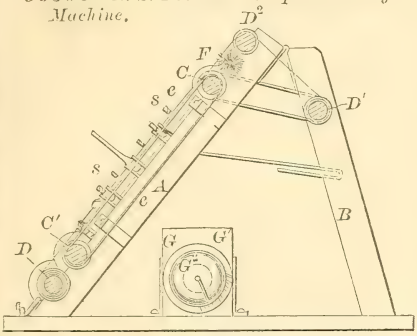

**90388**—W. R. Pomeroy—*Dental Instrument.*



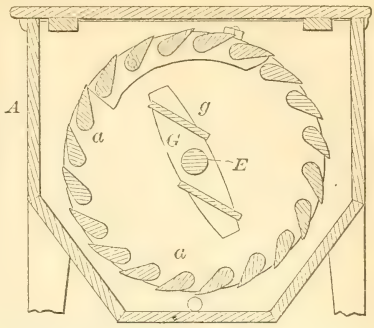
**90389**—J. L. Porter—*Abdominal Supporter.*



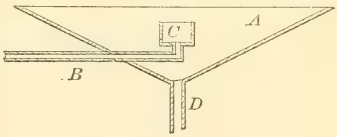

**90390**—E. S. Poucher—*Carpet Cleaning Machine.*

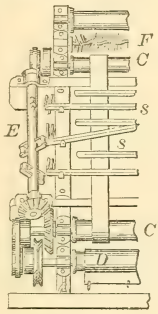



**90391**—S. G. Rice—*Washing Machine.*

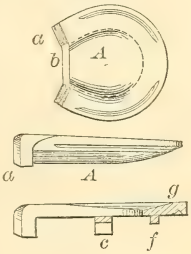



**90392**—Rice & Adams—*For Treating Hydro-Carbon Oils.*

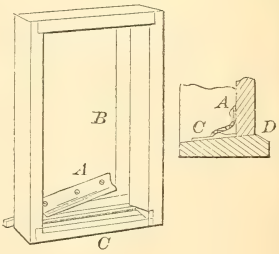


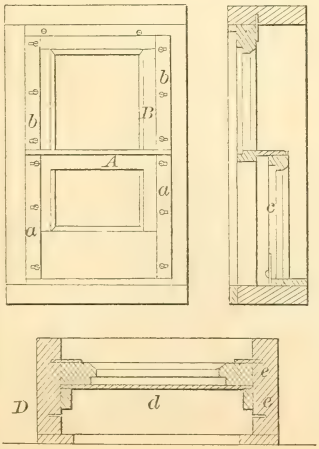

**90394**—D. Roberge—*Horse Shoe.*



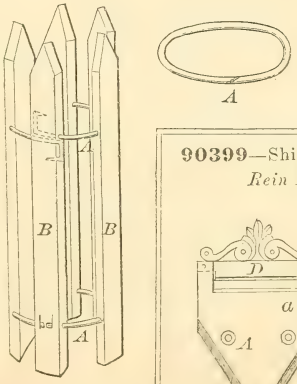

**90400**—A. D. Smith—*Door Strip.*



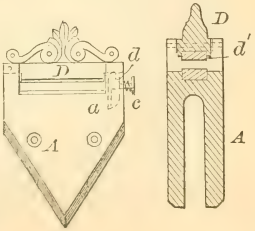

**90396**—G. A. Russell—*Window.*

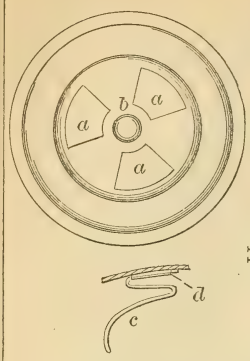



**90398**—S. Scotton—*Tree Box.*



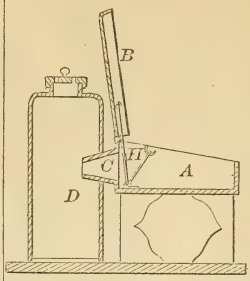

**90399**—Shillito & Walker—*Rein Holder.*

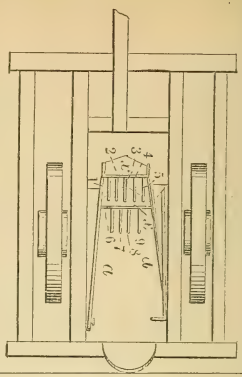





**90401**—H. Smith—*Flue Stopper.*

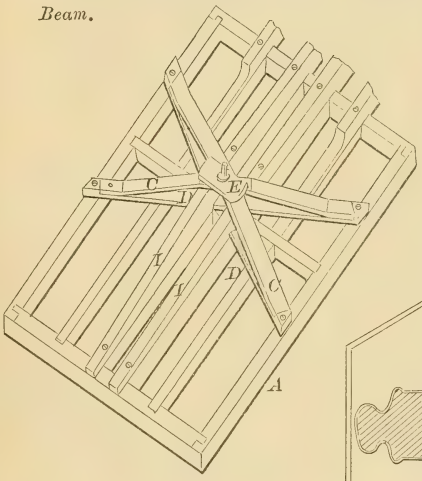
**90402**—W. Smith—*Fly Trap.*



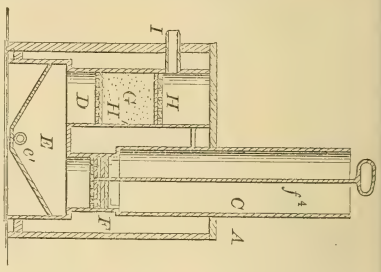




**90404**—S. Soules—*Potato Digger.*

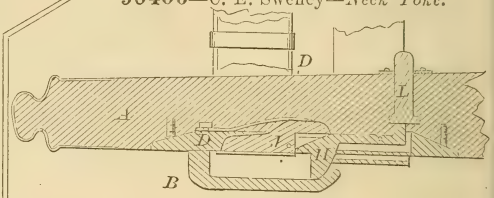
**90403**—Snow & Elmendorf—*Truss Rocker Beam.*



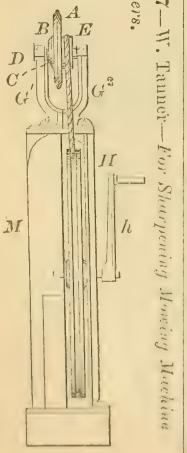

**90405**—T. Stewart—*Filter.*



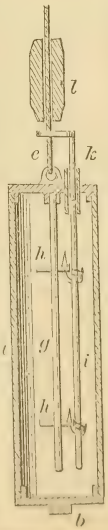

**90406**—C. E. Swency—*Neck Yoke.*



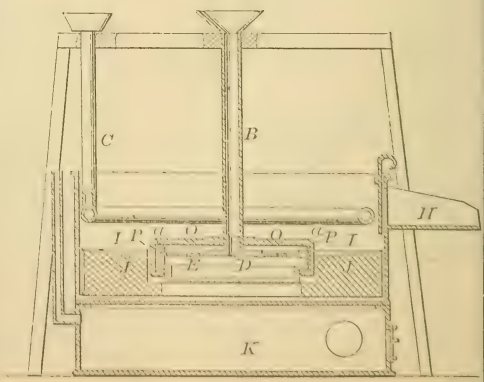

**90407**—W. Tanner—*For Sharpening Reaping Machine Cutters.*



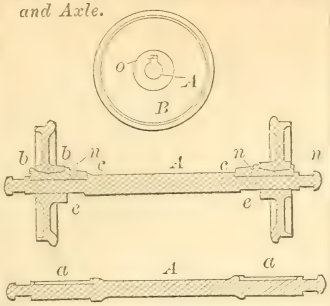

**90408**—H. H. Thomas—*Torpedo.*



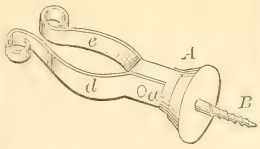

**90409**—J. Thomson—*Amalgamator.*



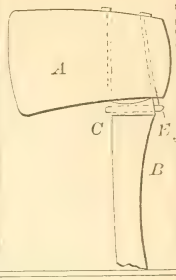
**90410**—C. D. Tisdale—*Car Wheel and Axle.*



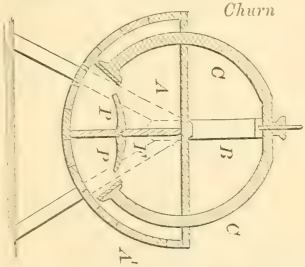

**90411**—L. W. Turner—*Broom Holder.*



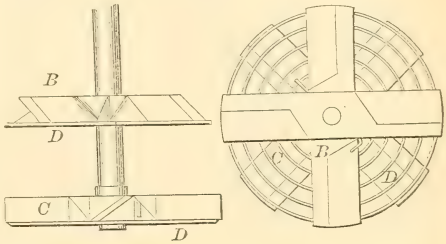

**90412**—T. H. Tyndale—*Axe.*



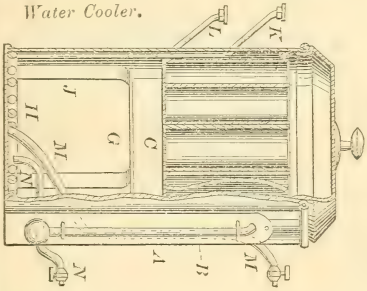

**90414**—Wilkins, Crodle & Niner—*Churn*



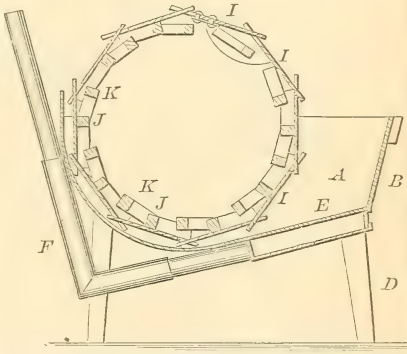

**90413**—O. A. White—*Churn Dasher.*



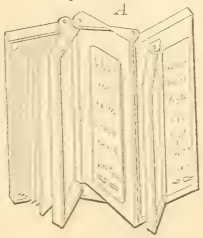

**90415**—L. J. Wolf—*Ale, Beer and Water Cooler.*



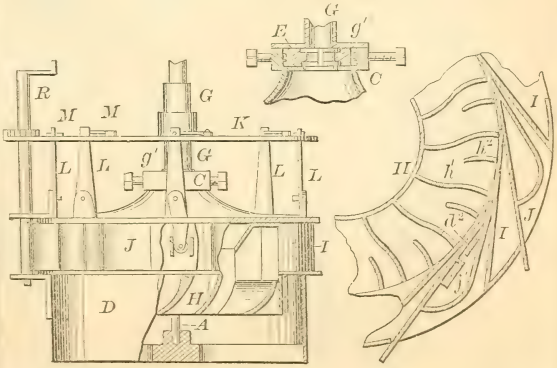

**90416**—J. B. Woolsey—*Washing Machine.*



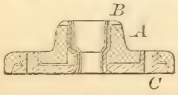

**90418**—S. E. Allen—*Case for Schedules.*



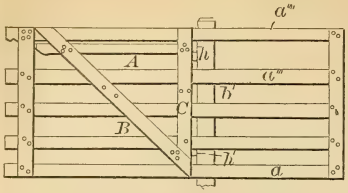

**90419**—V. M. Baker—*Turbine Wheel.*



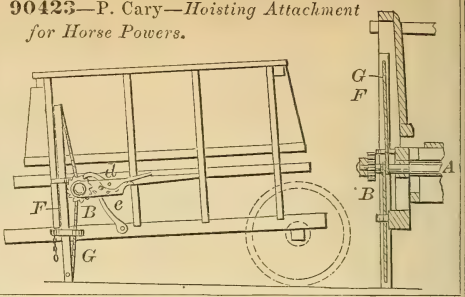

**90420**—C. L. Bates—*Rose for Door Knobs.*



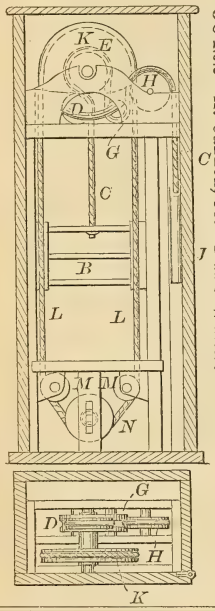
**90421**—Brown & Allen—*Gate.*



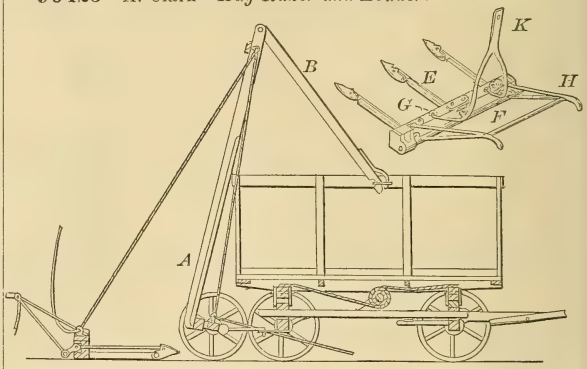

**90423**—P. Cary—*Hoisting Attachment for Horse Powers.*



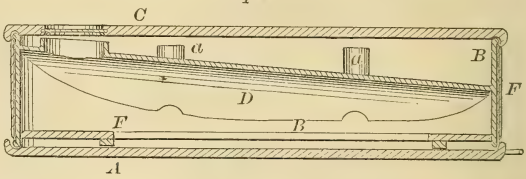

**90422**—A. Cannon, Jr.—*Dumb Waiter.*



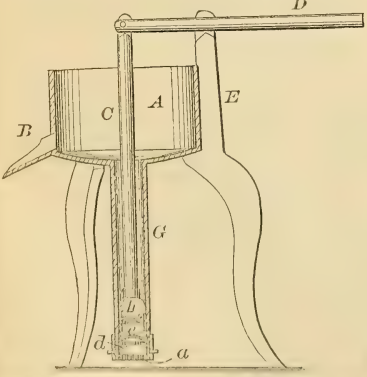

**90425**—A. Clark—*Hay Raker and Loader.*



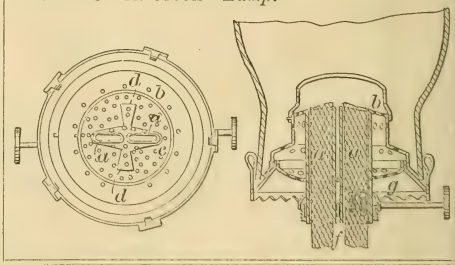

**90426**—J. L. Clark—*Corpse Preserver.*



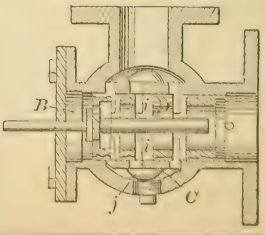

**90424**—T. A. Case—*Cream Pump.*




**90428**—A. Crook—*Lamp.*

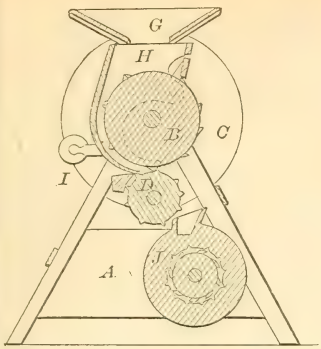



**90427**—C. A. Condé—*Stop Valve.*

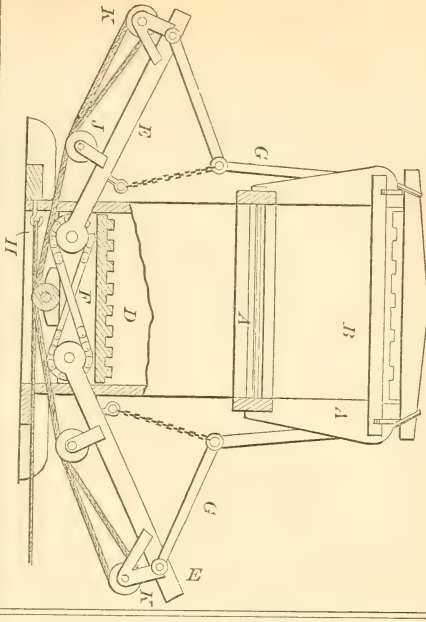



**90430**—F. W. Dean—*Harness Buckle.*

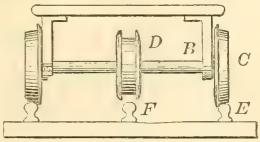
**90429**—R. Daniels—*Vegetable Crusher.*



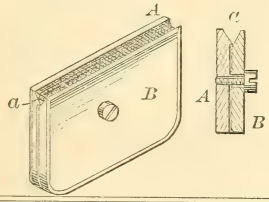

**90431**—L. Dederick—*Hay and Cotton Press.*



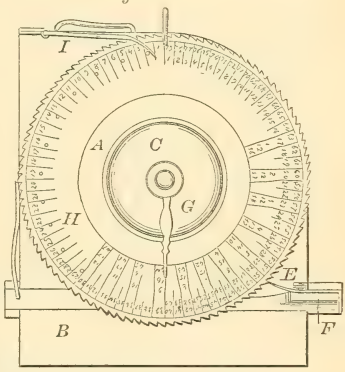

**90432**—P. S. Devlan—*Car Truck.*



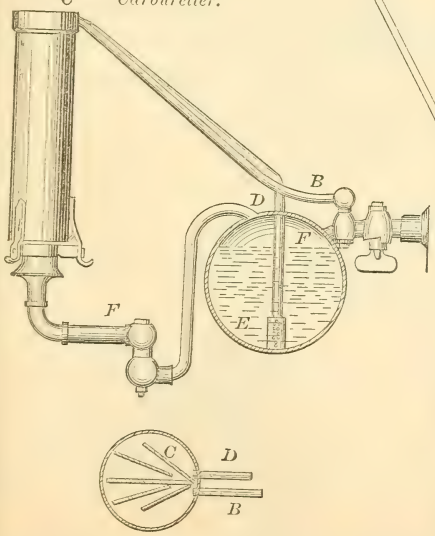

**90433**—A. S. Dinsmore—*Needle Sharpener.*



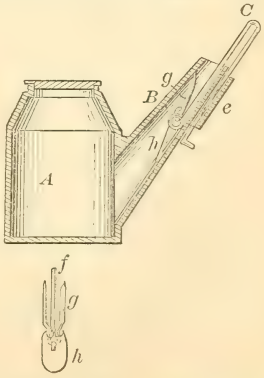

**90435**—W. V. Dubois—*Knitting Machine Register*



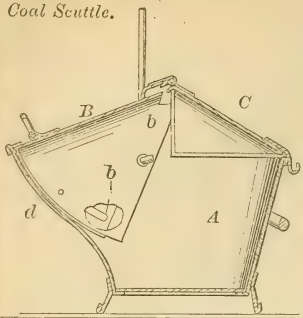

**90436**—C. F. Dunderdale—*Carburetter.*



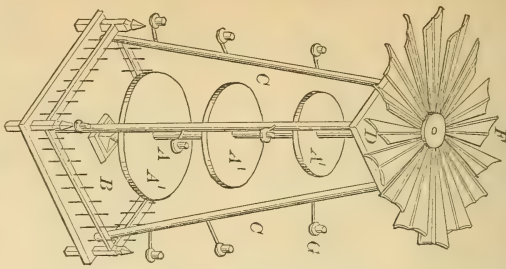

**90434**—W. G. Dowd—*Miners' Lamp.*



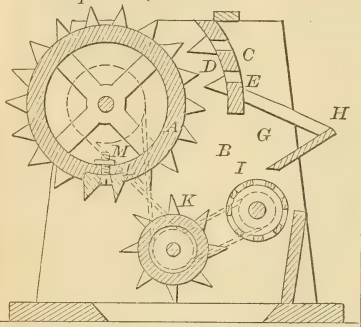
**90437**—Ellithorp & Sloane—*Coal Scuttle.*



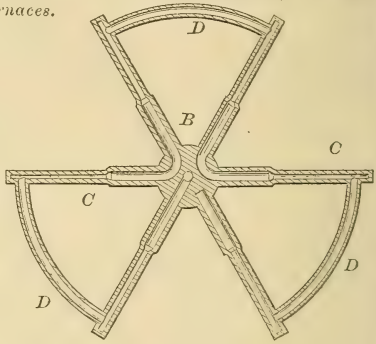

**90441**—F. A. Geisler—*Christmas Tree.*



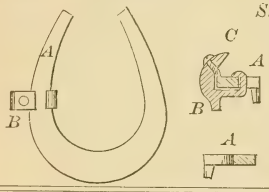

**90439**—L. P. Garner—*Coal Breaker and Separator.*



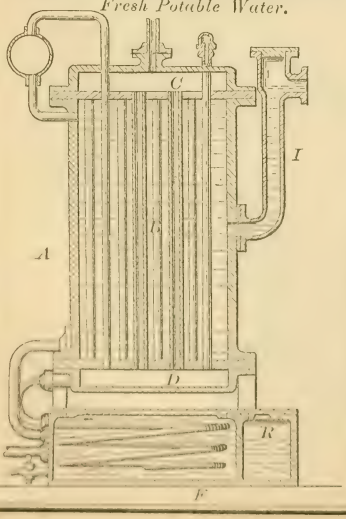

**90440**—D. H. Geiger—*For Collecting and Forcing Gases from Blast, Puddling and other Furnaces.*



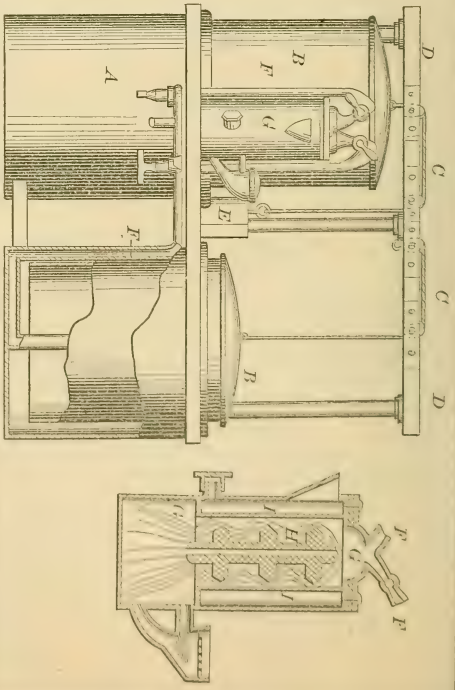

**90442**—K. Goddard—*Calk for Horse Shoes.*



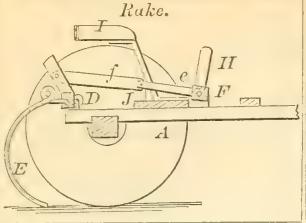

**90444**—W. A. Gray—*For Producing Fresh Potable Water.*



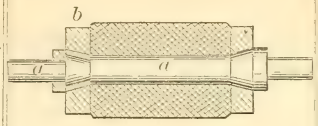

**90445**—J. W. Groat—*Gas Machine.*



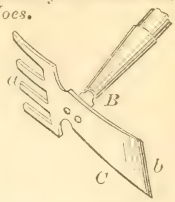
**90446**—S. J. Halstead—*Horse Rake.*



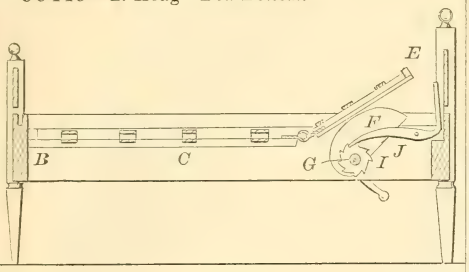

**90447**—T. Hardcastle—*Roll for Mangles, Washing Machines, &c.*



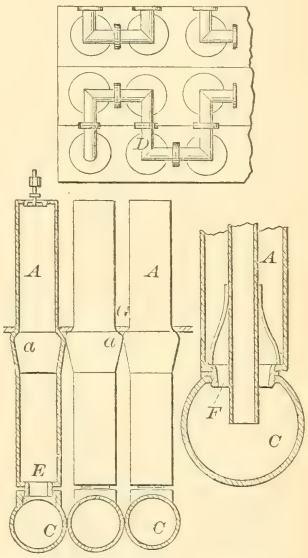

**90448**—N. Harper—*Blank for Rakes and Hoes.*



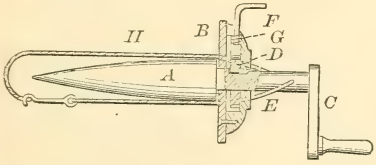

**90449**—E. Hoag—*Bed Bottom.*



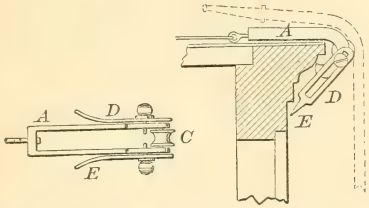

**90450**—Howard & Bousfield—*Steam Generator.*



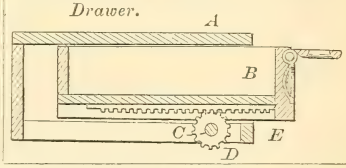

**90451**—J. E. Hunter—*Corn Shock Binder*



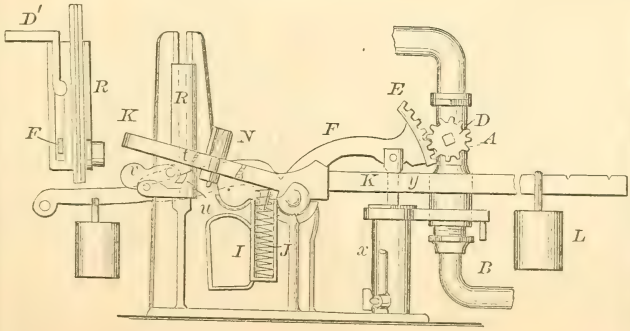

**90454**—J. J. Lovell—*Eaves Protector.*




**90452**—E. B. Johnson—*Furniture Drawer.*

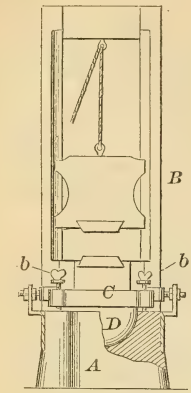


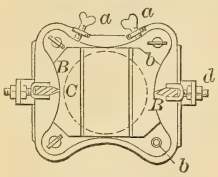

**90453**—J. Keane—*Water Closet Apparatus.*



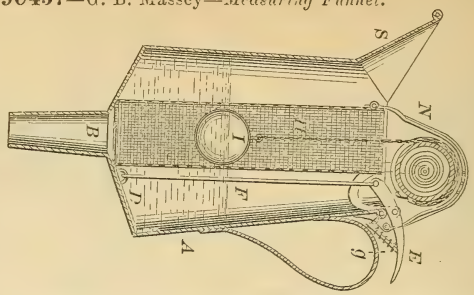

**90455**—T. E. Lutner—*Crank Axle for Wagons.*

**90456**—N. P. Maker—*Drop Press.*

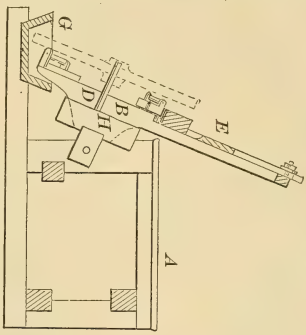


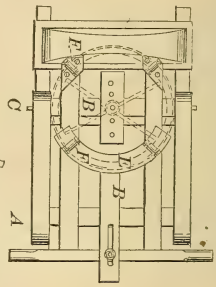




**90457**—G. B. Massey—*Measuring Funnel.*

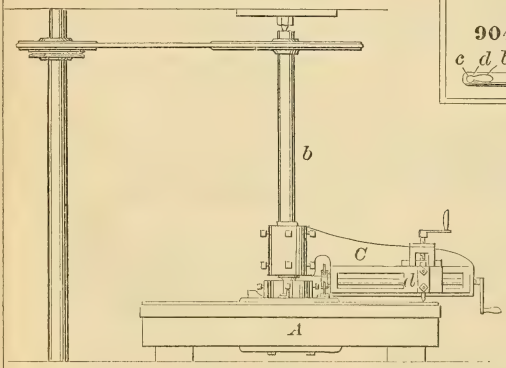


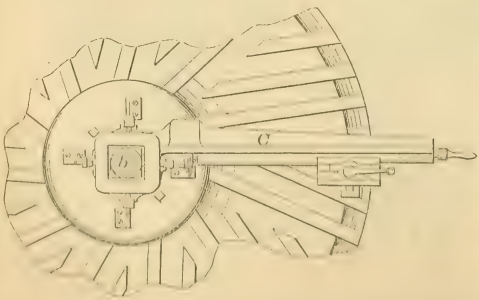

**90458**—F. Mills—*For Setting Wagon Tires.*



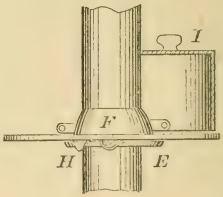

**90461**—Mumford & Wallis—*For Dressing Millstones.*

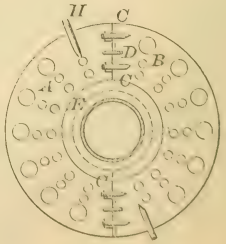


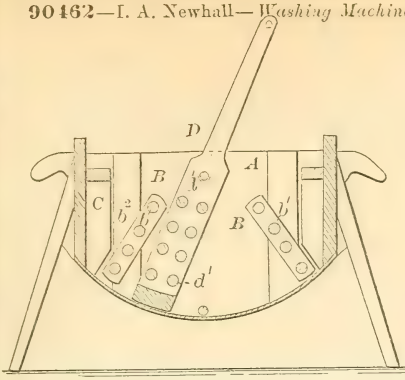

**90460**—A. Morrall—*Sewing Needle.*

**90459**—Miner & Torrey—*Stove Pipe Shelf and Oven.*

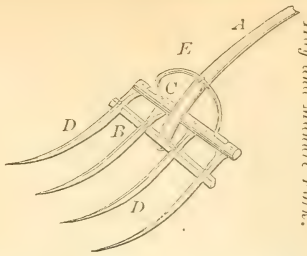


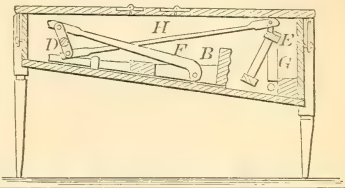
**90462**—I. A. Newhall—*Washing Machine.*



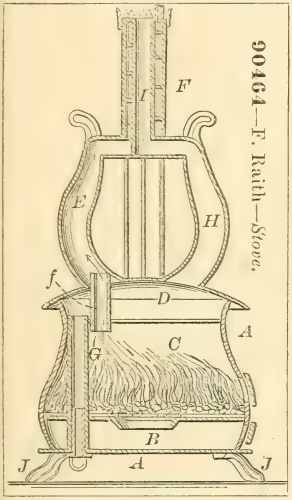

**90463**—L. D. Pitcher—*Hay and Manure Fork.*



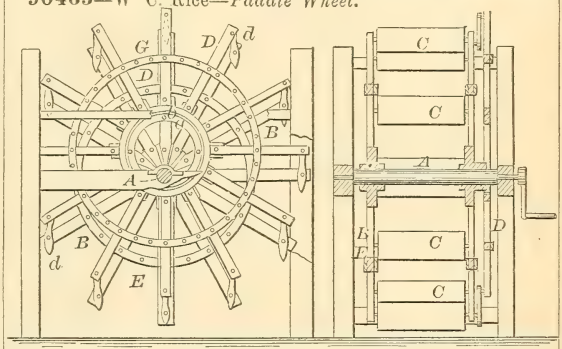

**90467**—J. M. Shuck—*Washing Machine.*



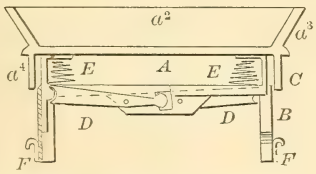

**90464**—F. Raith—*Stove.*



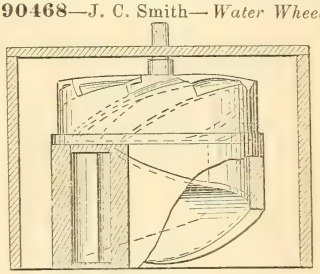

**90465**—W C. Rice—*Paddle Wheel.*



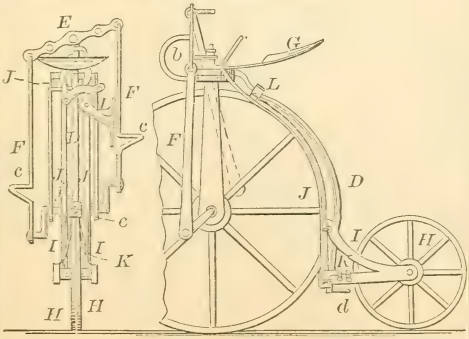

**90466**—A. Sheline—*Wagon Seat.*



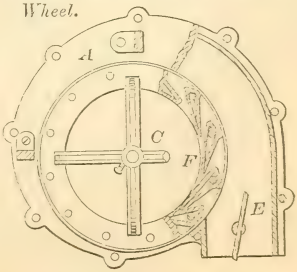

**90468**—J. C. Smith—*Water Wheel.*



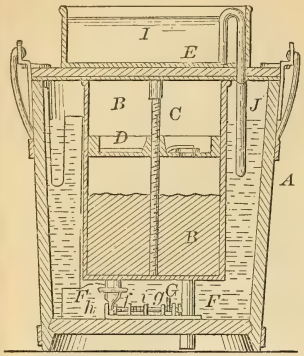
**90470**—L. H. Soule—*Velocipede.*



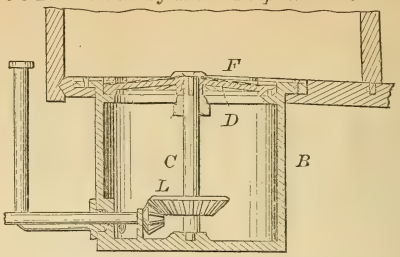

**90469**—W. H. Snyder—*Water Wheel.*



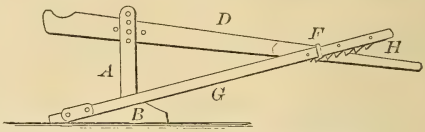
**90471**—J. Stark—*Dough Raiser.*



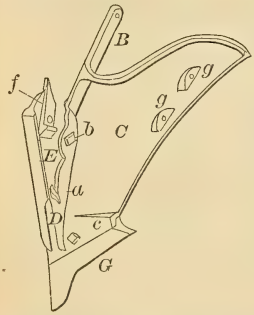

**90472**—R. R. Sylands—*Pulp Washer.*



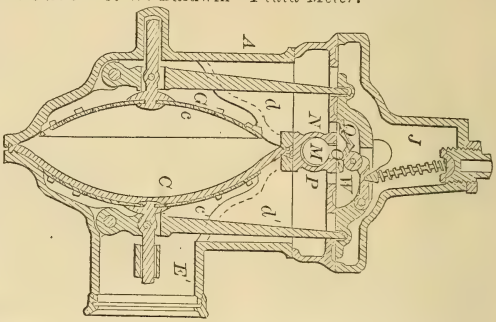

**90473**—J. N. Thatcher—*Carriage Jack.*



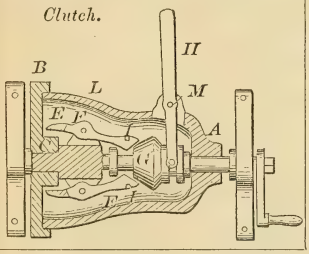

**90475**—E. Wiard—*Plow.*



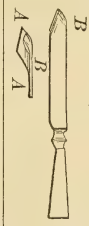

**90479**—C. W. Baldwin—*Fluid Meter.*



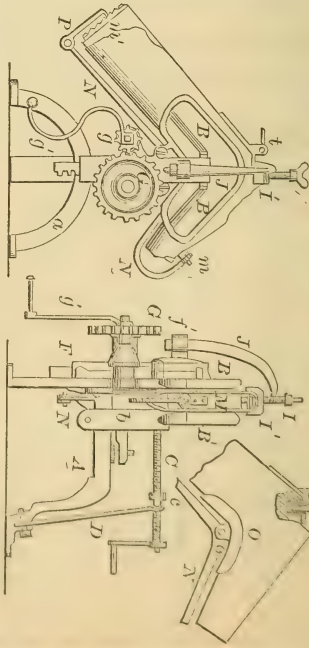

**90481**—D. Banks—*Friction Clutch.*



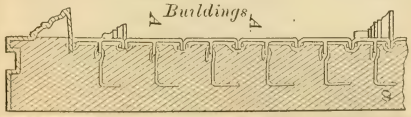

**90474**—W. Yeber, Jr.—*Knife.*



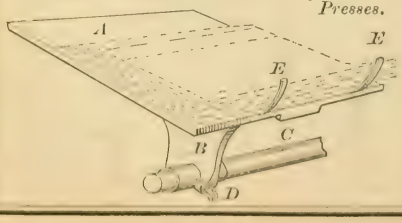

**90477**—J. B. Aikin—*Boot Crimper.*



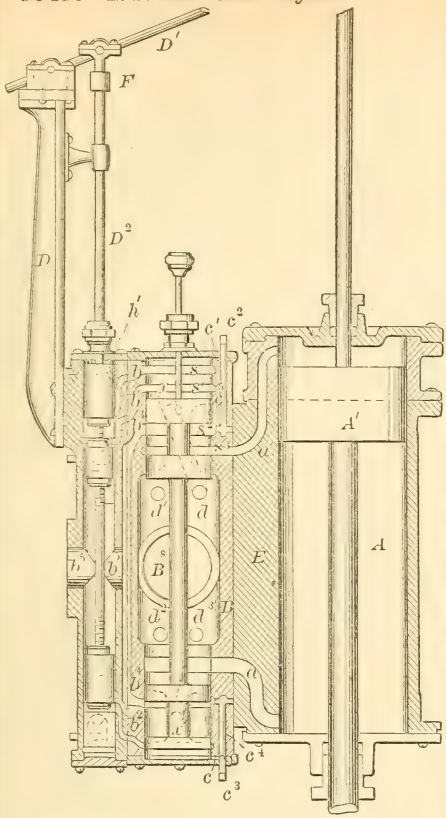

**90478**—Alexander & Burchell—*Iron Front for Buildings.*



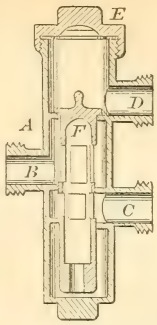

**90482**—H. Barth—*Feed Table for Printing Presses.*



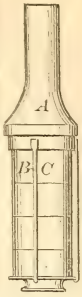
**90480**—E. P. Ball—*Steam Engine.*



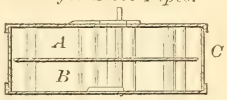

**90483**—F. H. Bartholomew—*Valve.*



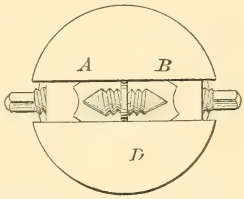

**90484**—J. F. Bartlett—*Lamp Chimney.*



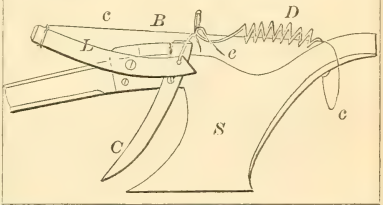

**90486**—N. W. Beckwith—*Hot Closet for Stove Pipes.*



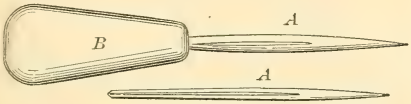

**90487**—W. Bellows—*Lathe Chuck.*



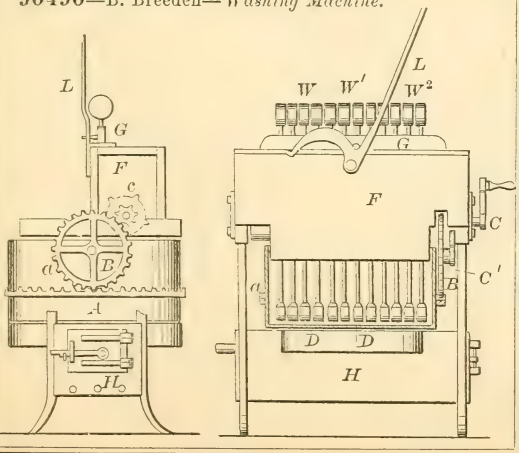

**90488**—A. C. Black—*Plow Clearer.*



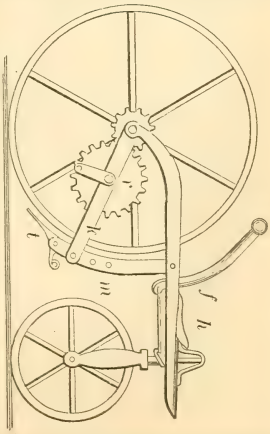

**90485**—S. Y. Beach—*Belt Awl.*



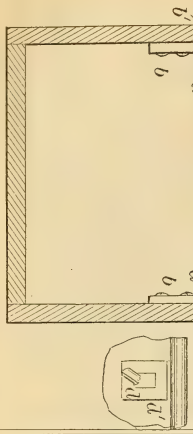

**90490**—B. Breeden—*Washing Machine.*



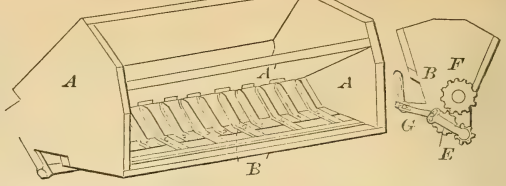

**90489**—P. J. Boris—*Velocipede.*



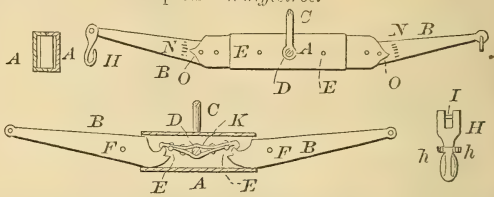
**90491**—W. Broomhall—*Coffin.*



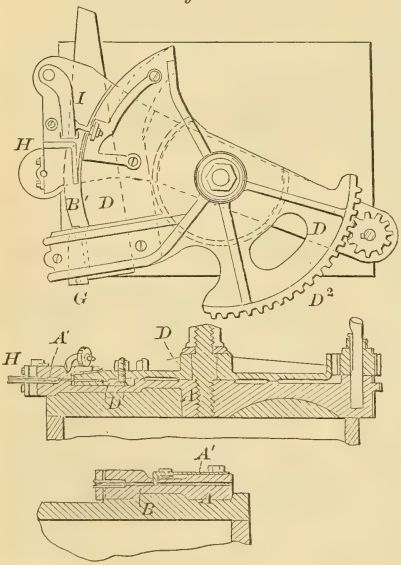
**90493**—H. L. & C. P. Brown—*For Distributing Guano.*



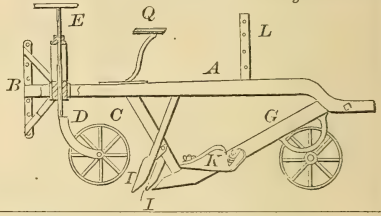
**90503**—G. N. Compton—*Whiffletree.*



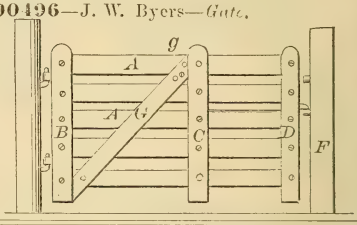
**90492**—G. W. Brown—*For Bending Metals Edgewise.*



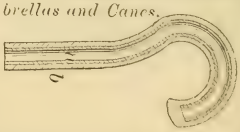
**90495**—M. E. Burtless—*Ditching Machine.*



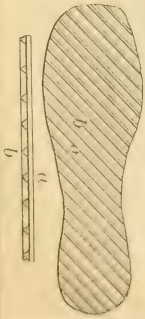
**90496**—J. W. Byers—*Gate.*



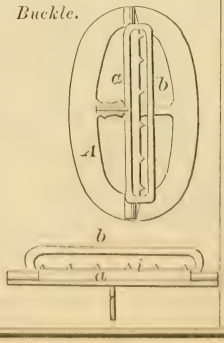
**90498**—L. Chapman—*Handle for Umbrellas and Canes.*



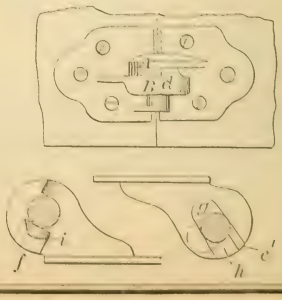
**90499**—E Chesterman—*Insole.*



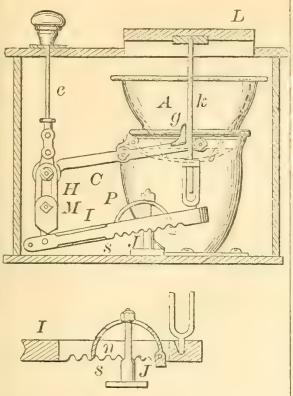
**90501**—F. Clausen—*Buckle.*



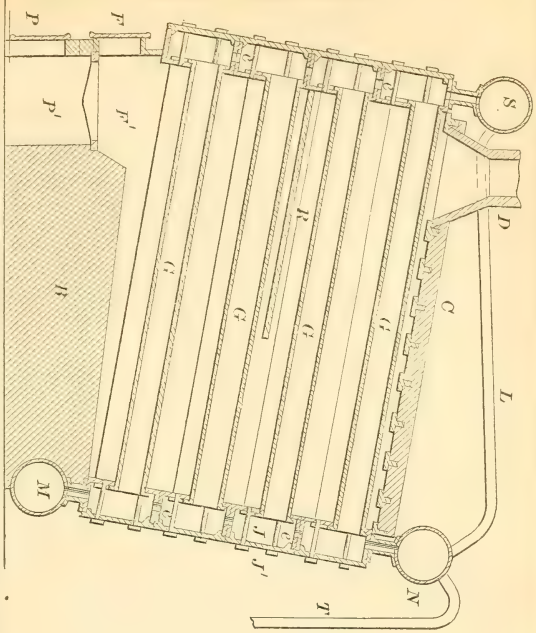
**90500**—C. B. Clark—*Hinge.*



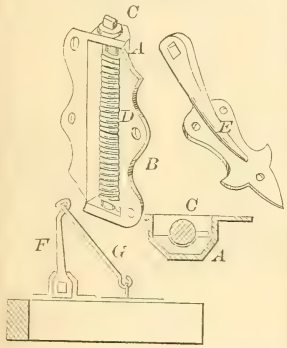
**90502**—B. R. Cole—*Water Closet.*



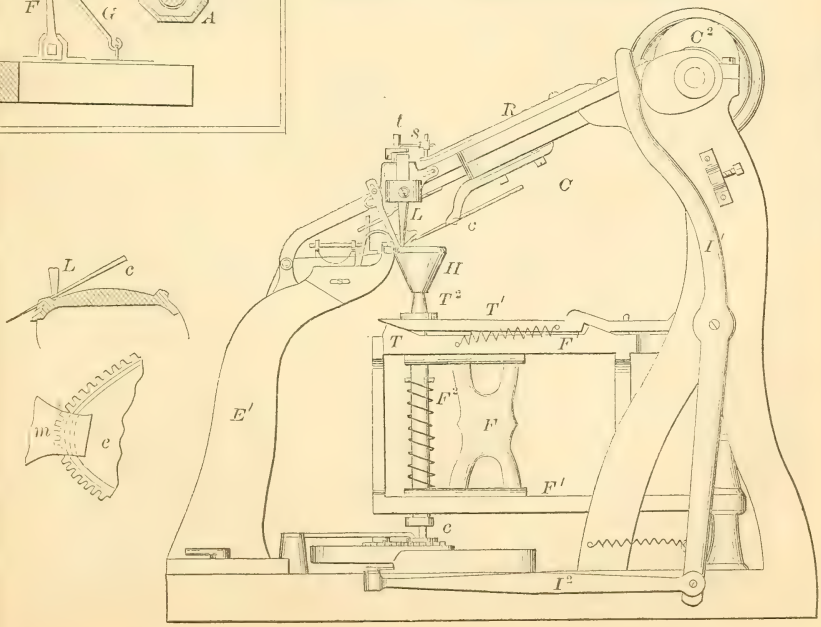

**90506**—B. Crawford—*Steam Generator.*



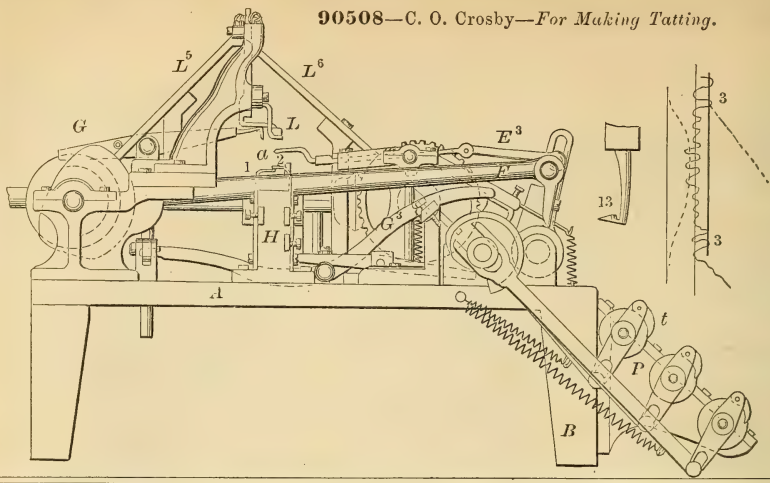

**90504**—J. J. Cowell—*Hinge and Spring.*



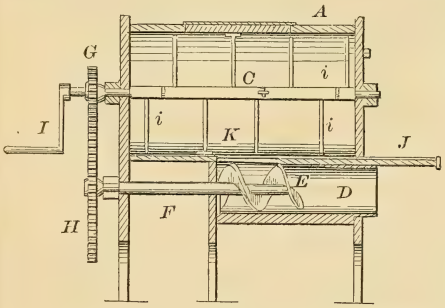

**90507**—C. O. Crosby—*Sewing Machine.*



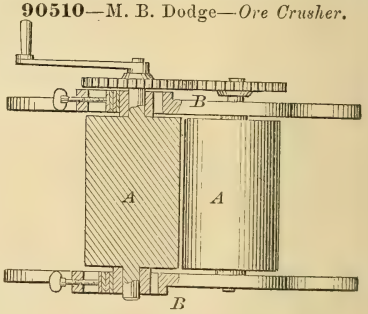
**90508**—C. O. Crosby—*For Making Tatting.*



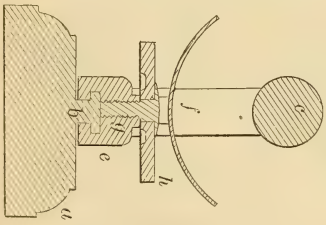

**90509**—J. Davidson—*Dough Mixing Machine.*



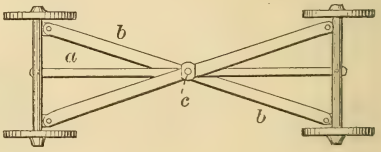

**90510**—M. B. Dodge—*Ore Crusher.*



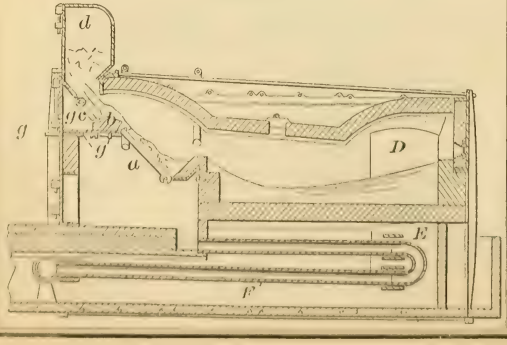

**90511**—D. Donalds—*Sad Iron.*



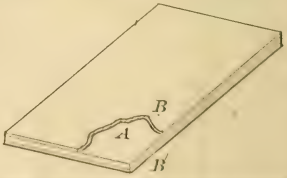

**90513**—Z. Eastman—*Running Gear of Street Cars.*




**90515**—A. Elliot—*Reverberatory and Melting Furnace.*

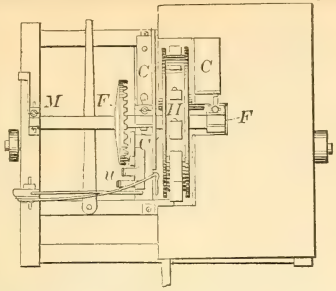


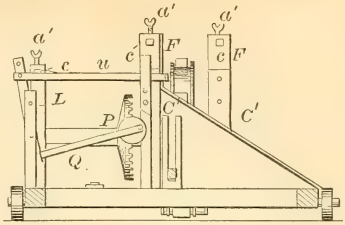

**90512**—Dwight & Wells—*Plow.*

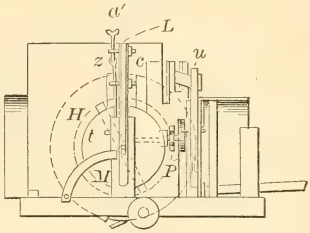



**90516**—M. H. Fairchild—*Horn Comb.*

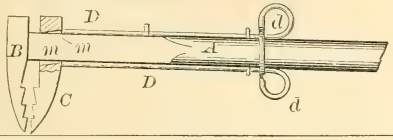
**90517**—Felthoff & Tingley—*Ditching Machine.*



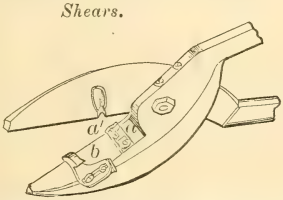



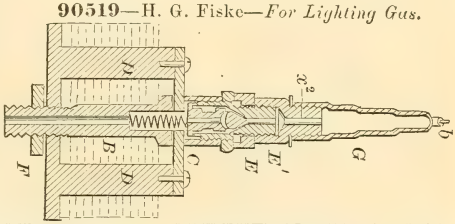

**90520**—S. Gantz—*Mop Head.*



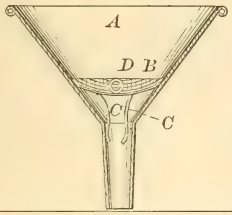

**90518**—C. E. Fisk—*Printers' Shears.*



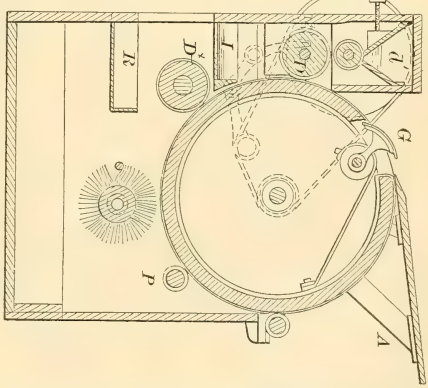

**90519**—H. G. Fiske—*For Lighting Gas.*



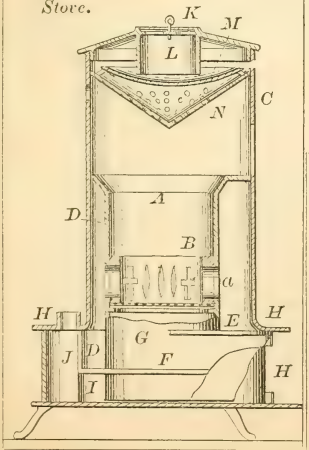

**90523**—J. H. Goodfellow—*Funnel.*



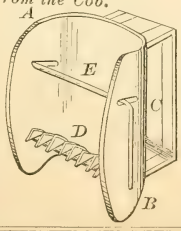

**90521**—B. G. George—*For Bronzing Printed Work.*



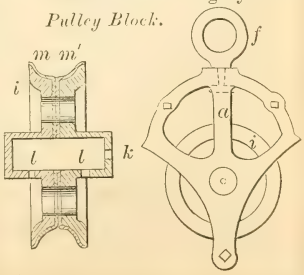

**90524**—J. H. Goodfellow—*Stove.*



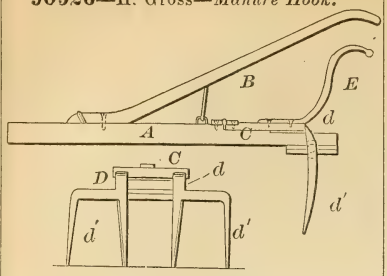

**90522**—W. L. Gilroy—*For Cutting Green Corn from the Cob.*



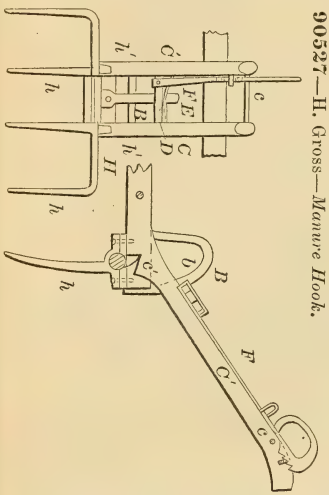

**90525**—G. W. Gregory—*Pulley Block.*



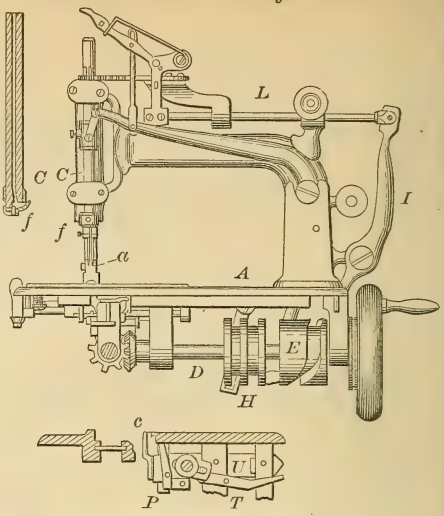
**90526**—H. Gross—*Manure Hook.*



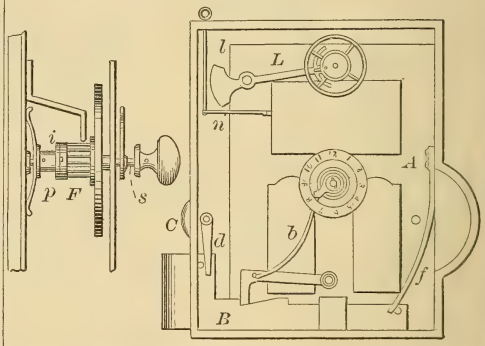

**90527**—H. Gross—*Manure Hook.*



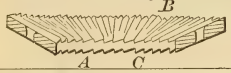

**90528**—J. Gutmann—*Sewing Machine.*



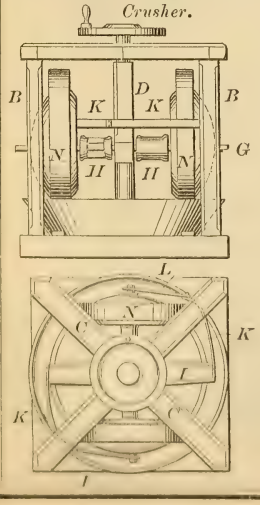

**90529**—L. A. Haines—*Time Lock.*




**90531**—Halladay & Ruggles—*Iron Grinding Plate.*

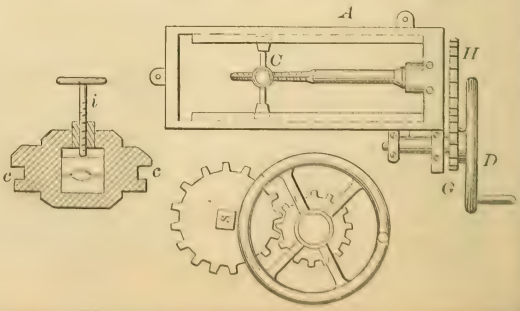



**90532**—Hamilton, Hanson & G. W. & J. Hamilton—*Ore Crusher.*

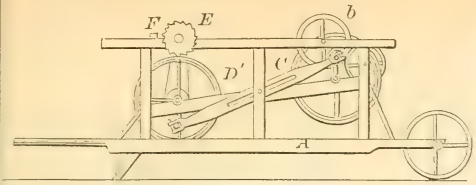



**90530**—W. Hall, Jr.—*Skating Rod and Stool.*

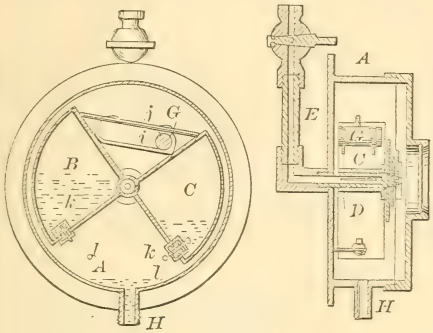
**90533**—W. Harles—*For Threading Rods, Bolts, &c.*



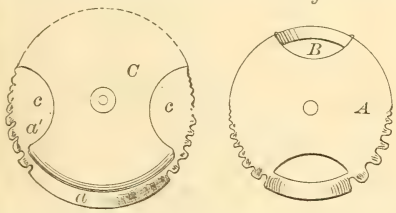
**90534**—J. J. Harris—*Sawing Machine.*



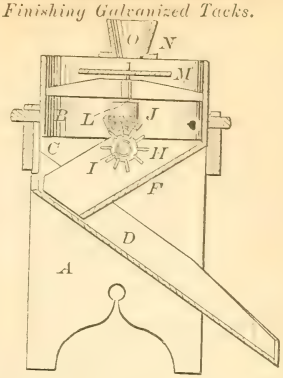

**90535**—T. C. Hargrave—*Water Meter.*



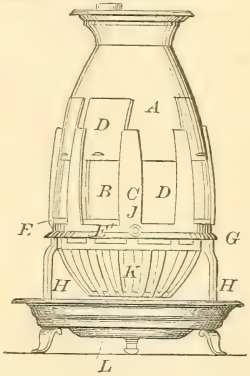

**90539**—J. Heuermann—*Drinking Vessel Cover.*



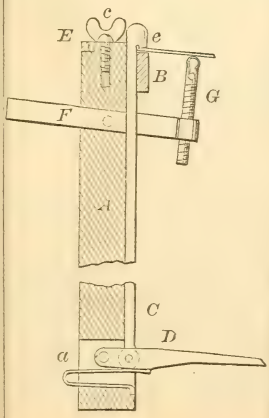

**90536**—Hathaway & Stetson—*For Finishing Galvanized Tacks.*



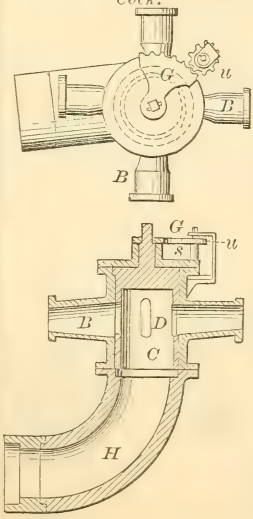

**90537**—J. H. Helm—*Stove.*



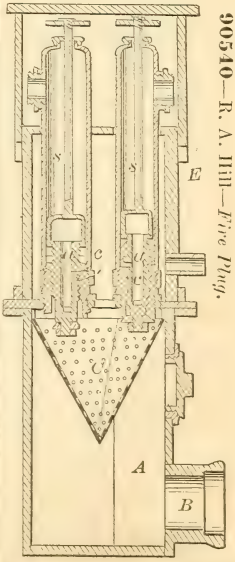

**90538**—C. Herrmann—*Saw Set.*



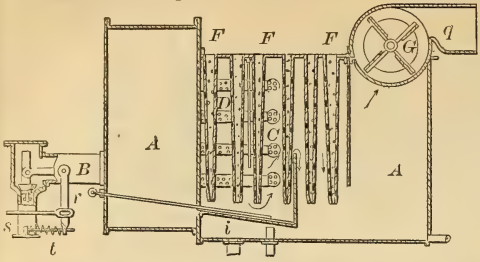

**90541**—R. A. Hill—*Stop Cock.*



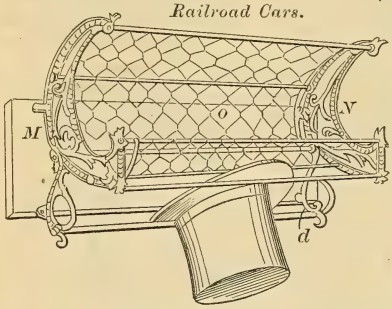

**90540**—R. A. Hill—*Fire Plug.*



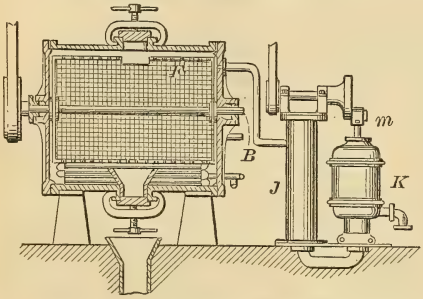
**90542**—J. Houpt—*Condenser.*



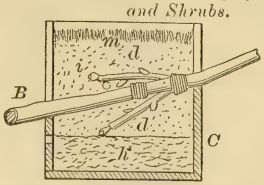

**90543**—J. L. Howard—*Bracket Basket for Railroad Cars.*



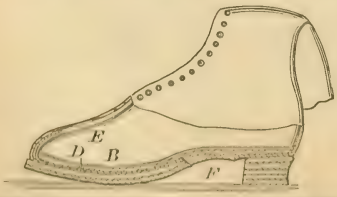

**90545**—W. W. Hughes—*Drying Malt.*



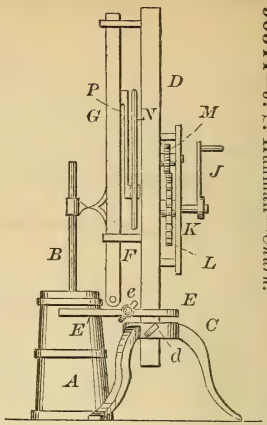

**90548**—S. Hutchinson—*Propagating Trees and Shrubs.*



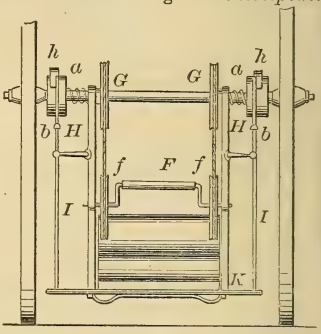

**90551**—W. F. Jobbins—*Boots and Shoes.*

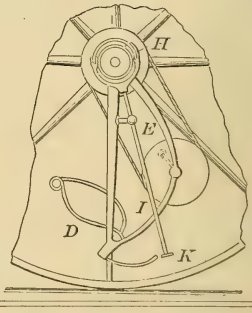



**90544**—J. S. Huffman—*Churn.*

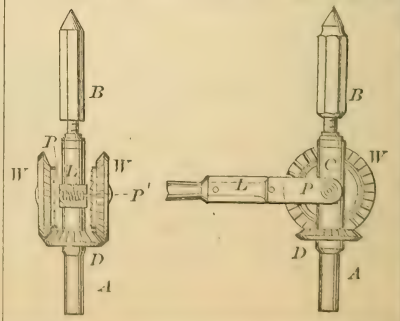



**90546**—E. Huntington—*Velocipede.*

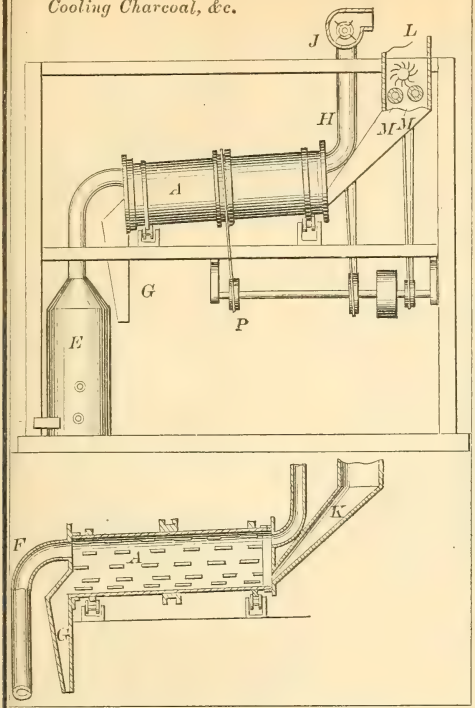


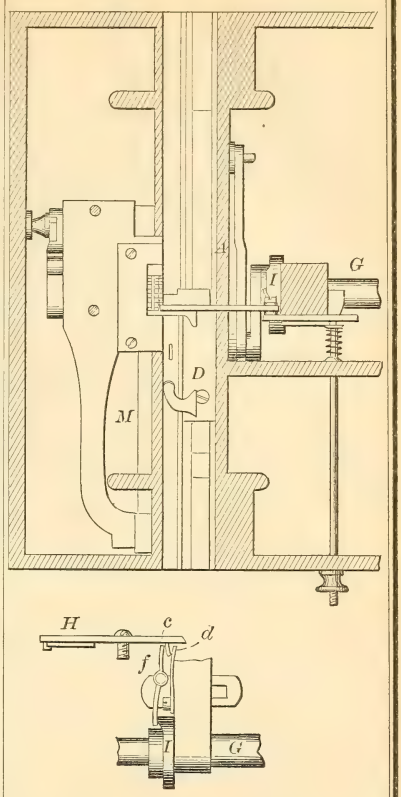

**90547**—G. Hutchins—*Ratchet Drill.*



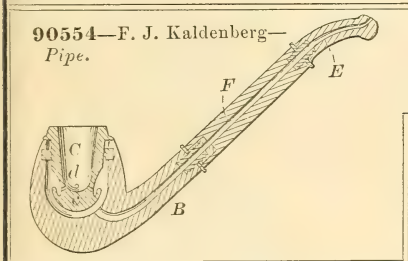
**90549**—G. A. Jasper—*For Drying Sugar and Cooling Charcoal, &c.*



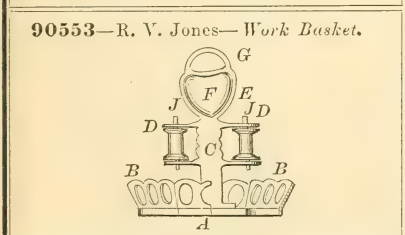

**90552**—J. T. Jones—*Sewing Machine.*



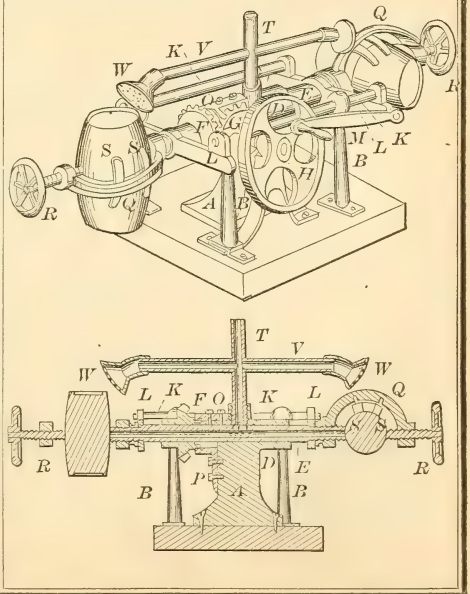

**90554**—F. J. Kaldenberg—*Pipe.*



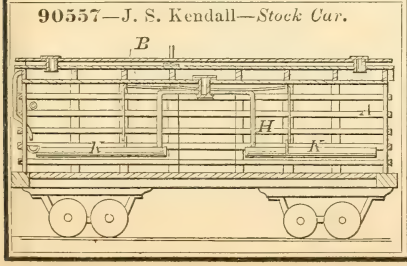

**90553**—R. V. Jones—*Work Basket.*



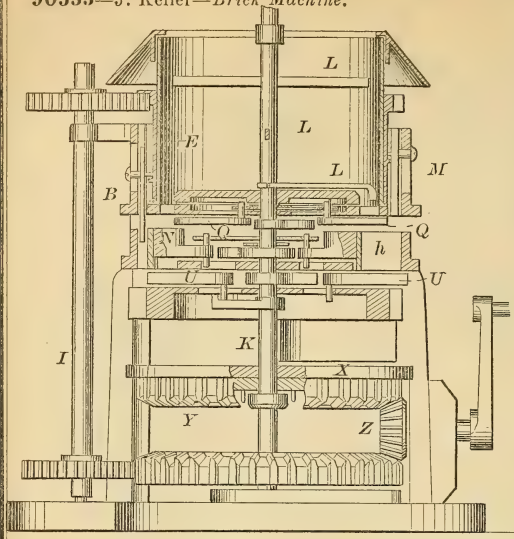

**90550**—W. Johnson—*Washing Machine.*



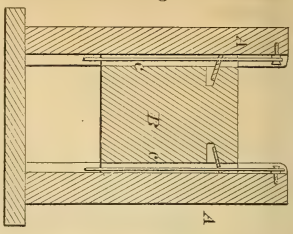

**90557**—J. S. Kendall—*Stock Car.*



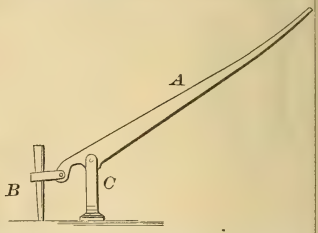
**90555**—J. Keller—*Brick Machine.*

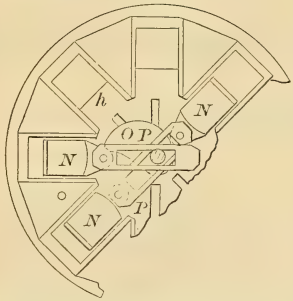



**90558**—G. King—*Sash Lock.*

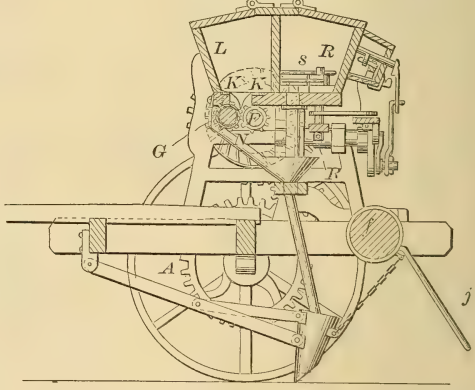



**90559**—R. Knott—*Stake Puller.*

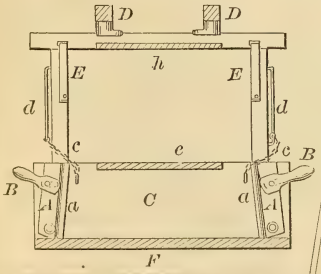


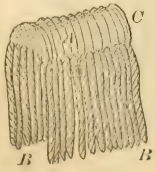

**90556**—J. F. Keller—*Seed Drill and Fertilizer.*



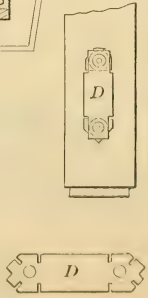

**90560**—S. E. Knott—*Car Door.*



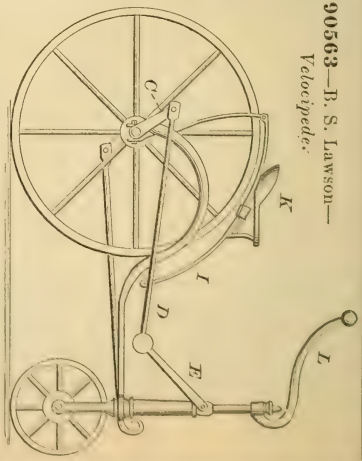

**90562**—J. Law—*Mop.*



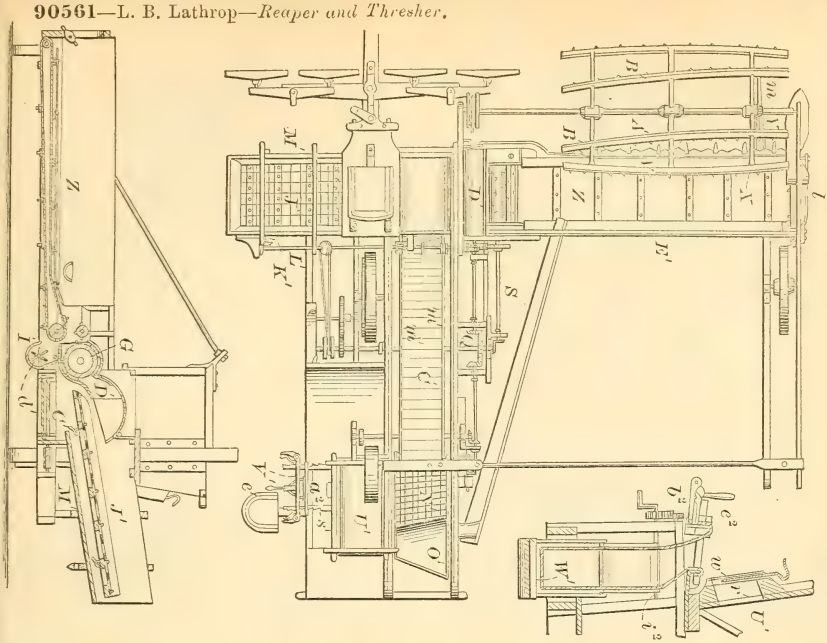

**90567**—H. McCown—*Nut Lock.*

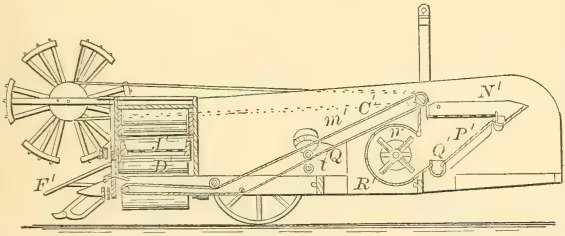


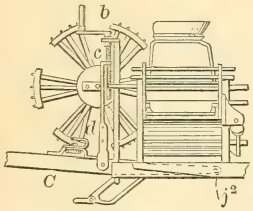

**90563**—B. S. Lawson—*Velocipede.*

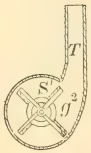


**90561**—L. B. Lathrop—*Reaper and Thresher.*

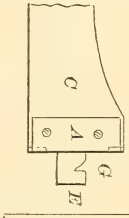




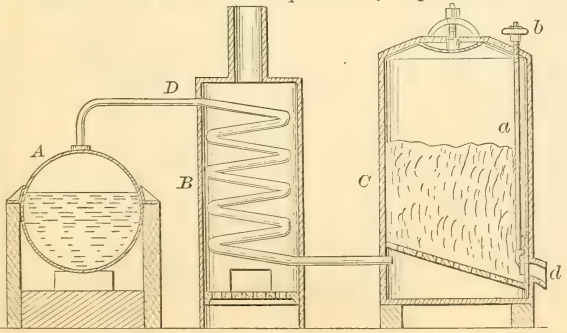




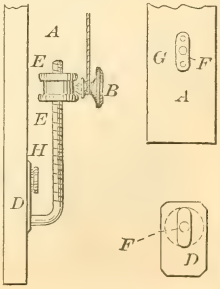
**90568**—P. McIntyre—*Bedstead Fastening.*



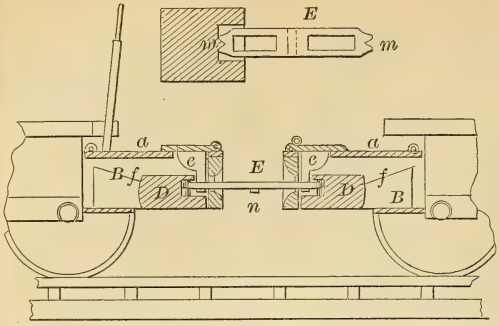
**90566**—G. E. Marshall—*Preparation of Paper Stock.*



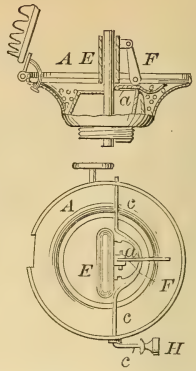
**90571**—B. Moser—*Curtain Fixture.*



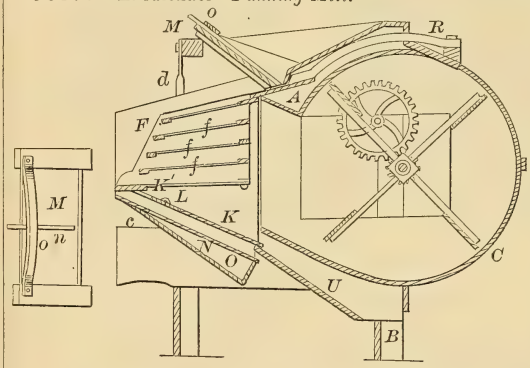
**90569**—McLain & Kelsey—*Car Coupling.*

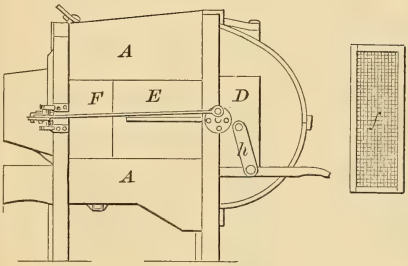



**90572**—C. Newman—*Lamp Extinguisher.*

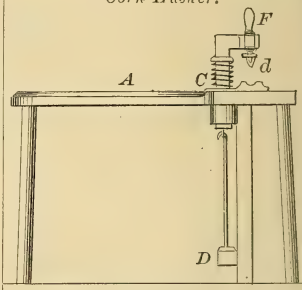


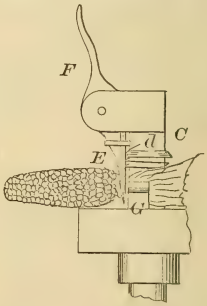

**90570**—E. Michael—*Fanning Mill.*



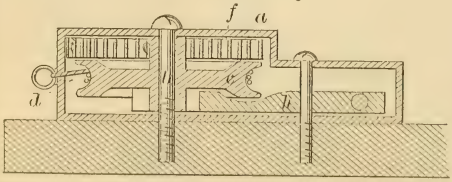




**90574**—Perkins & Crandall—*Corn Husker.*

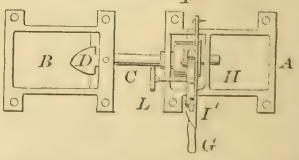


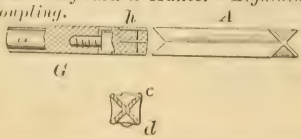

**90575**—G. W. R. Pollock—*Burglar Alarm.*



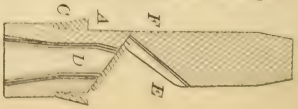

**90573**—W. B. Parsons—*Car Coupling.*



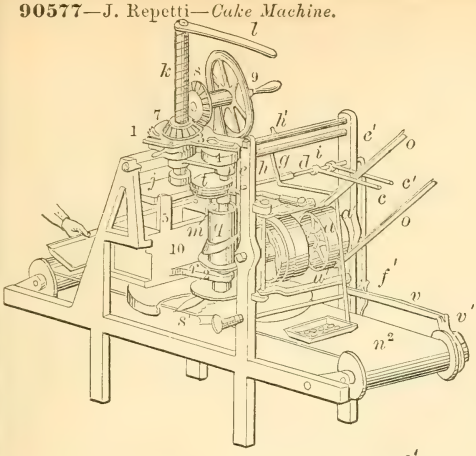

**90578**—Reyburn & Hunter—*Lightning Rod Coupling.*

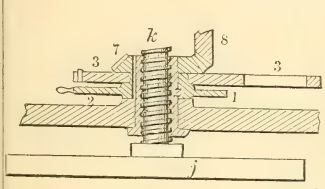



**90576**—A. J. Pritchard—*Pump.*



**90577**—J. Repetti—*Cake Machine.*





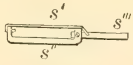
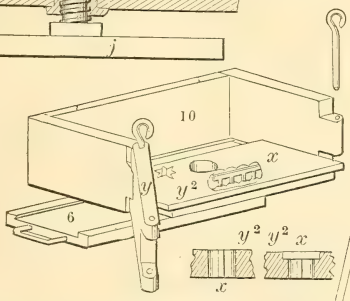
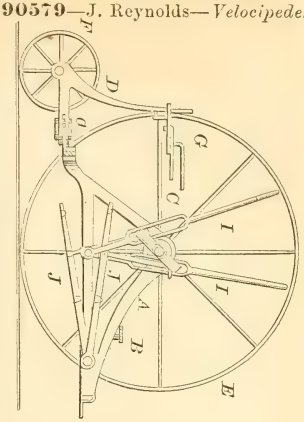
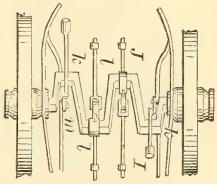


Fig. 6

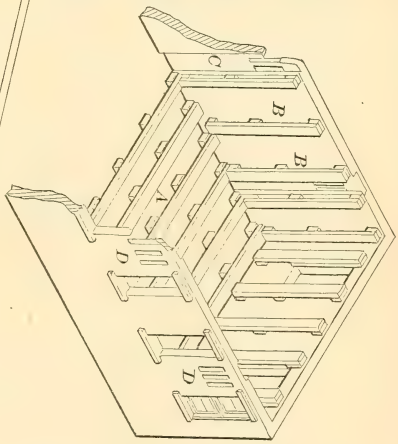


**90579**—J. Reynolds—*Velocipede.*

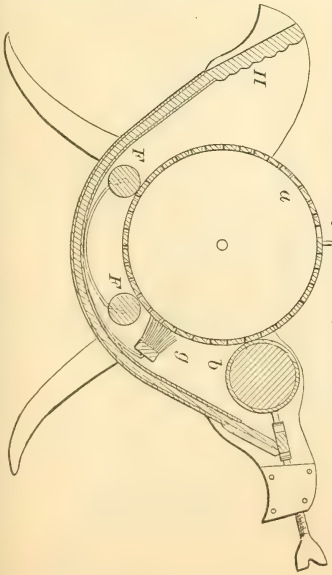




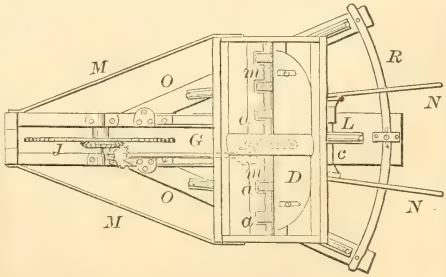
**90580**—M. M. Reily—*Ventilator.*



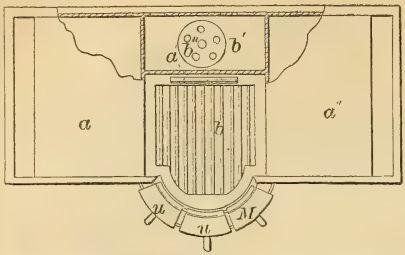
**90581**—Riker & Torrey—*Washing Machine.*



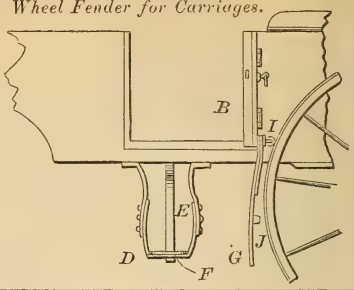
**90582**—J. L. Riter—*Grain Drill.*



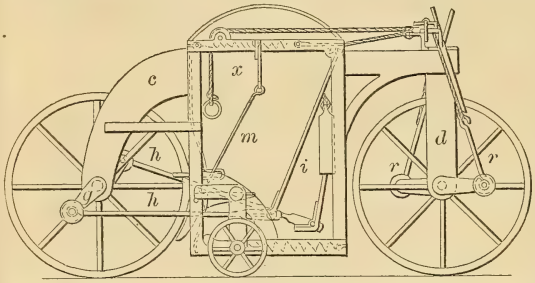
**90583**—H. R. Robbins—*Range.*



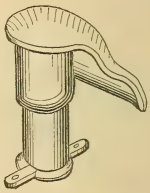

**90584**—J. Roberts—*Step Cover and Wheel Fender for Carriages.*



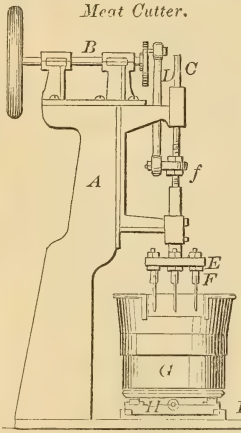

**90585**—P. C. Rowe—*Velocipede*



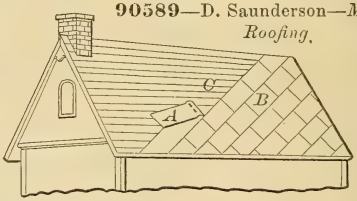

**90586**—J. A. Rumsey—*Pump.*



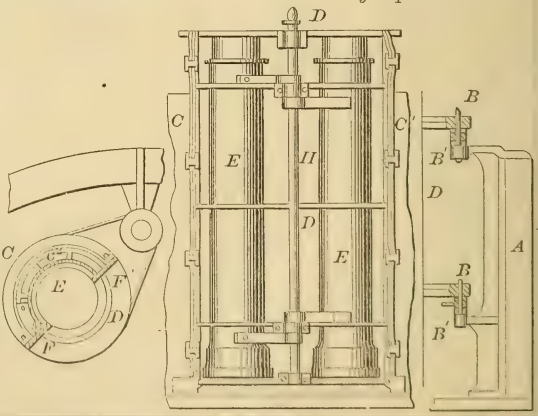
**90588**—F. S. Rutchman—*Meat Cutter.*



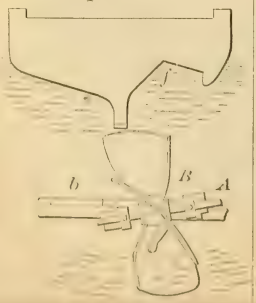

**90589**—D. Saunderson—*Metallic Roofing.*



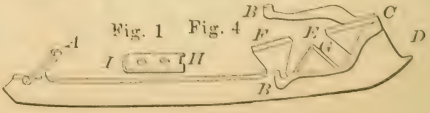

**90591**—F. Shickle—*For Moulding Pipe.*



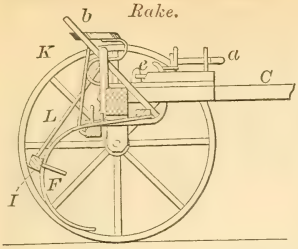

**90590**—C. Sharps—*Propeller.*

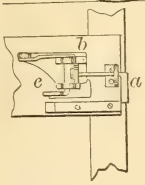



**90587**—R. J. Russell—*Skate.*

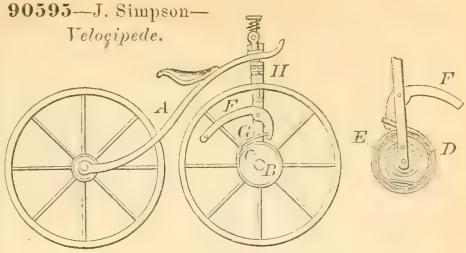


**90592**—A. J. Shunk—*Horse Rake.*

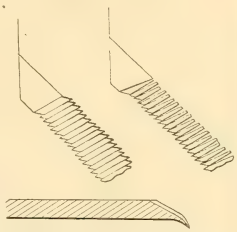


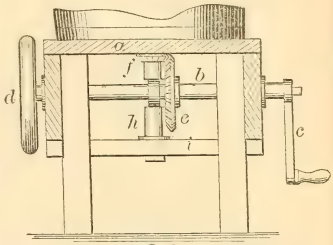

**90595**—J. Simpson—*Velocipede.*

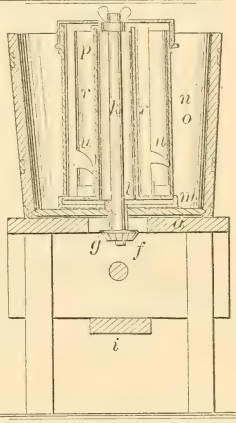



**90593**—G. F. Simonds—*Sickle Section.*

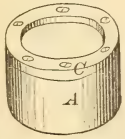


**90594**—J. Sissons—*Ice Cream Freezer.*

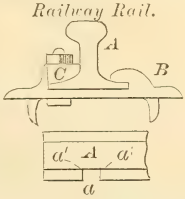


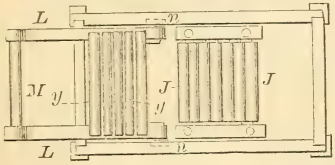

**90596**—S. Simpson—*Die.*

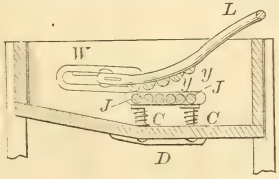



**90597**—A F. Smith—*Railway Rail.*



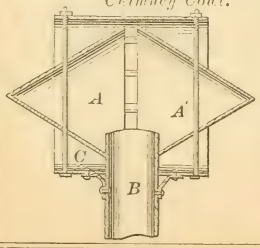

**90598**—C. P. Snow—*Washing Machine.*



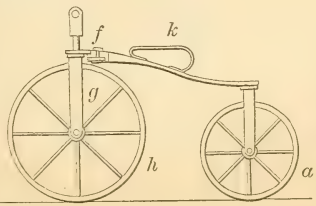



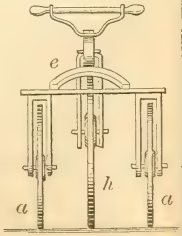

**90599**—G. K. Snow—*Paper Cuff.*

**90600**—T. S. Speakman—*Chimney Cowl.*

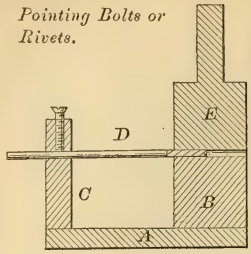



**90601**—C. & A. Spring—*Velocipede.*

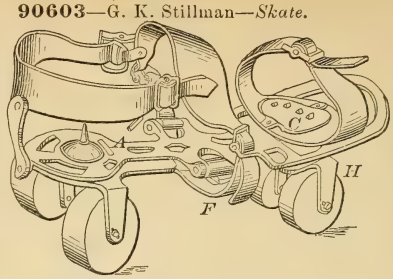


**90602**—J. Stacher—*For Pointing Bolts or Rivets.*

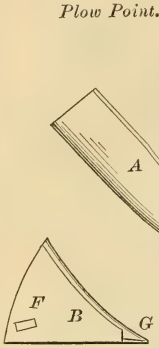



**90603**—G. K. Stillman—*Skate.*

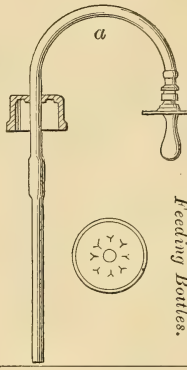



**90607**—W. Tibbals—*Cartridge.*

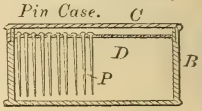
**90604**—O. O. Storle—*Plow Point.*



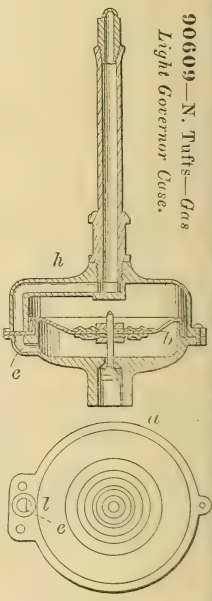

**90606**—Thompson & Ingram—*Cup for Feeding Bottles.*



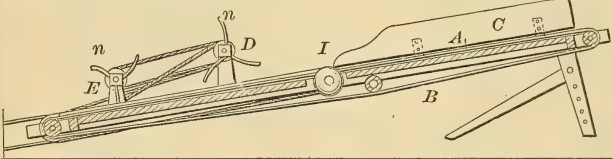

**90608**—T. R. Timby—*Pin Case.*



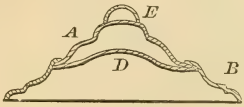

**90609**—N. Tufts—*Gas Light Governor Case.*




**90605**—L. Sumner—*Band Cutter for Threshing Machines.*

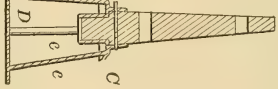



**90610**—Ulrich & Hachmeister—

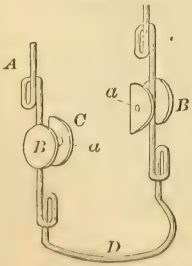



*Harness Ornament.*

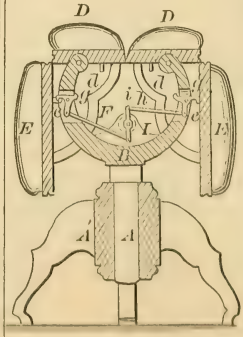
**90611**—G. Unger—*Fence Post Socket.*



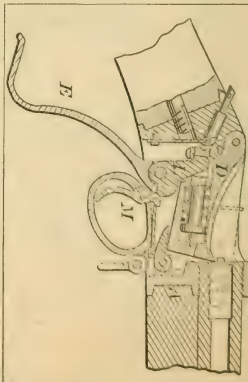

**90612**—A Viridet—*Bridle Bit.*



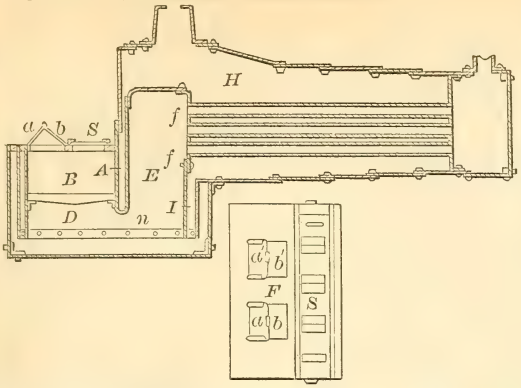

**90613**—H. & V. Vogel—*Piano Stool.*



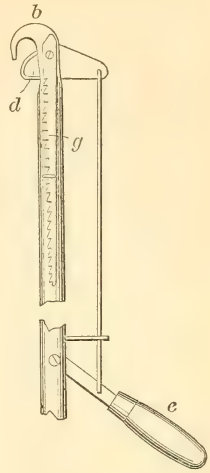

**90614**—F. Von Martini—*Fire Arm.*



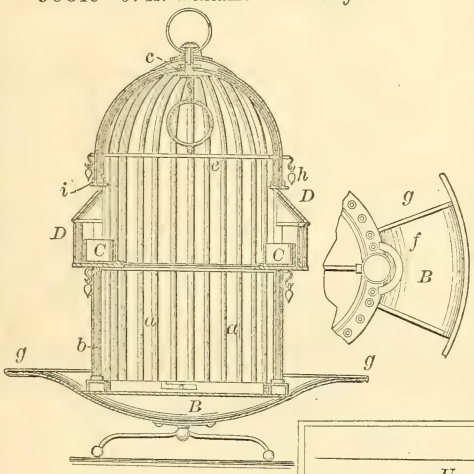
**90615**—L. R. Wallace—*Boiler Furnace.*



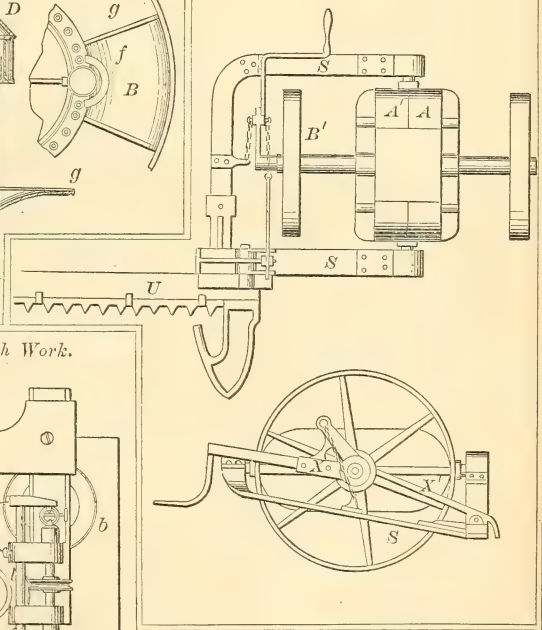

**90618**—G. F. Waters—*Pruning Implement.*



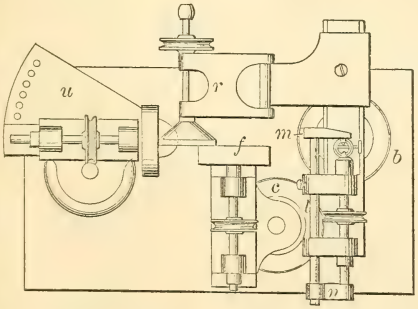

**90619**—J. H. Williams—*Bird Cage.*



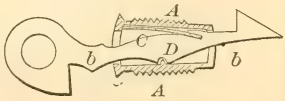

**90621**—G. W. N. Yost—*Harvester.*



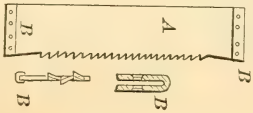

**90620**—C. V. Woerd—*Watch Work.*



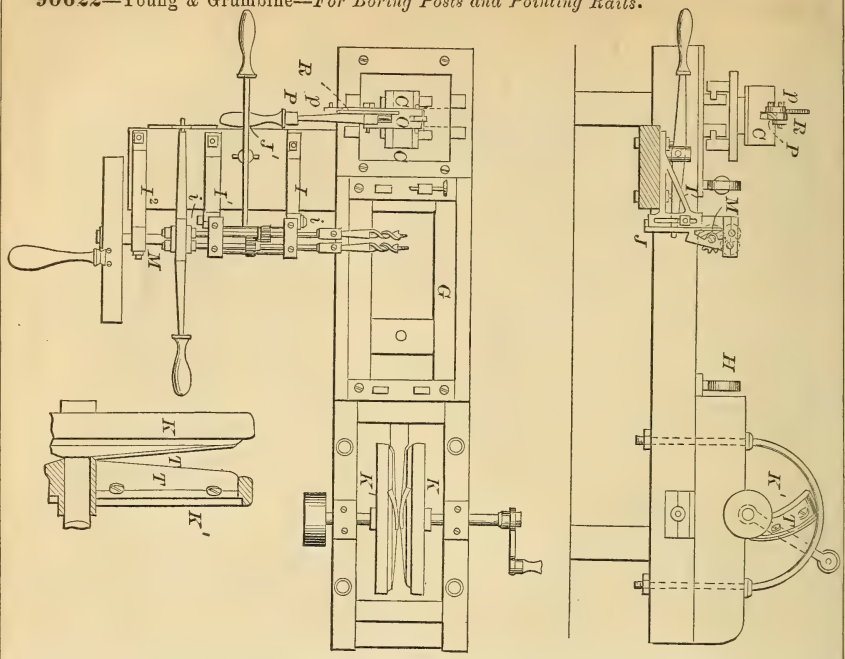

**90625**—F. & F. Babcock—*Blind Fastener.*



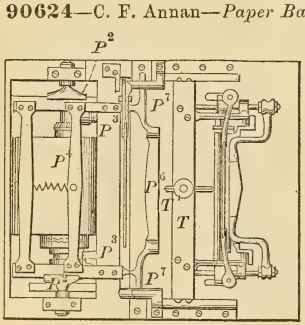

**90623**—E. Andrews—*Saw Strap.*

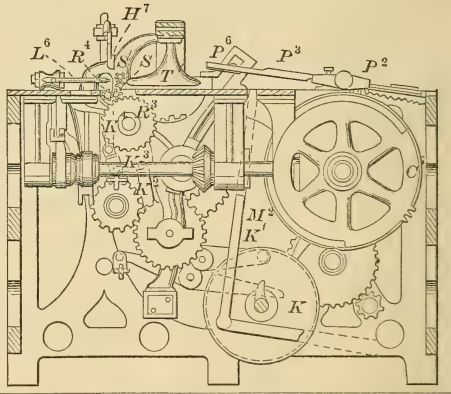


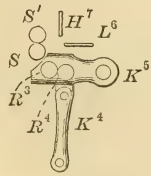
**90622**—Young & Grumbine—*For Boring Posts and Pointing Rails.*



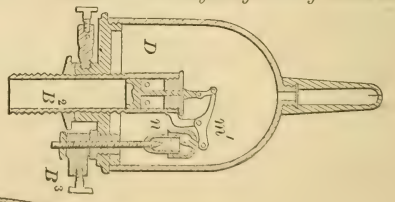
**90624**—C. F. Annan—*Paper Bag Machine.*

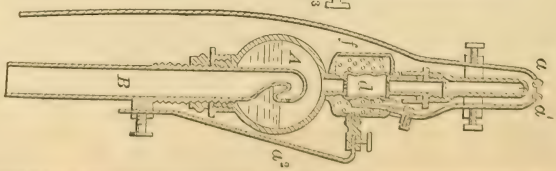




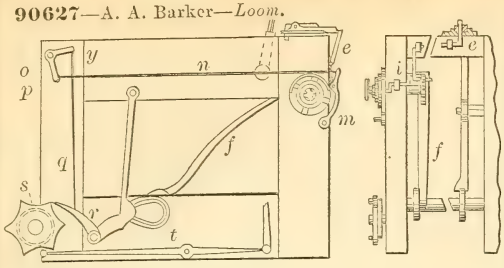


**90626**—A. Barbarin—*For Lighting Gas by Electricity.*

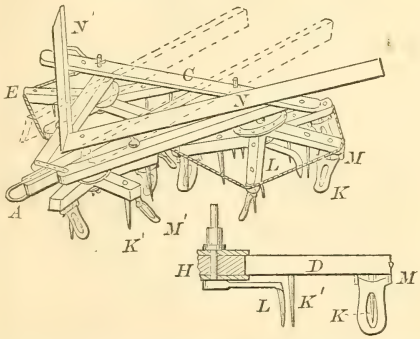




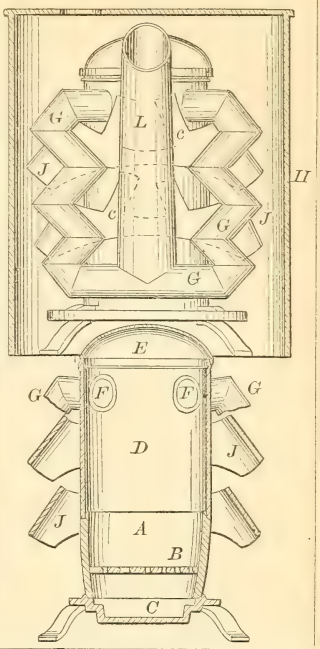
**90627**—A. A. Barker—*Loom.*



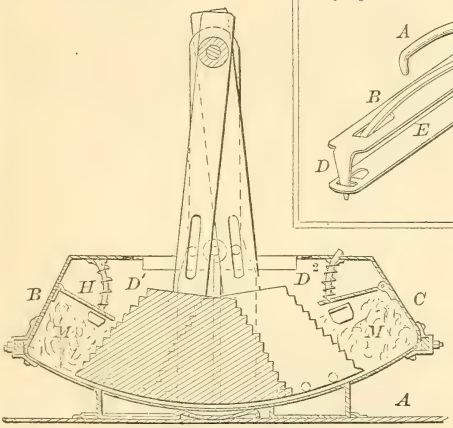

**90628**—C. Bates—*Harrow.*



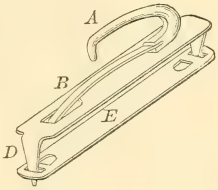

**90630**—P. D. Beckwith—*Hot Air Furnace.*



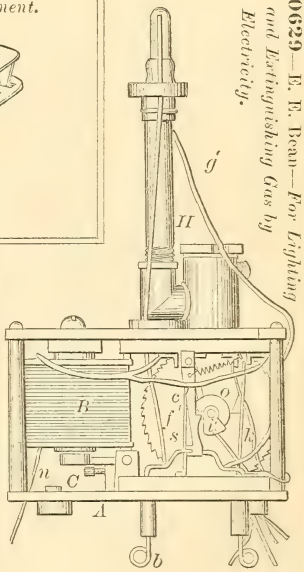

**90633**—Brisco & Blackham—*Felting Machine.*



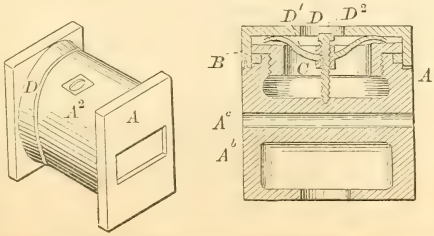

**90632**—C. V. Boughton—*Safety Pocket Attachment.*



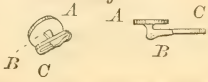

**90629**—E. E. Bean—*For Lighting and Extinguishing Gas by Electricity.*



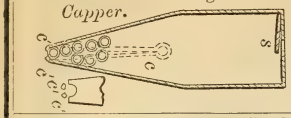

**90635**—W. K. Cavett—*Slide Valve.*



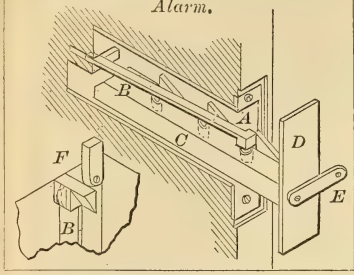

**90631**—J. F. Blood—*Button Fastening.*



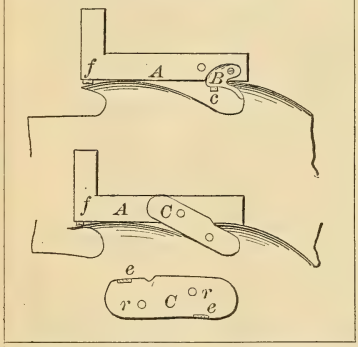
**90634**—H. Buffington—*Gun Capper.*



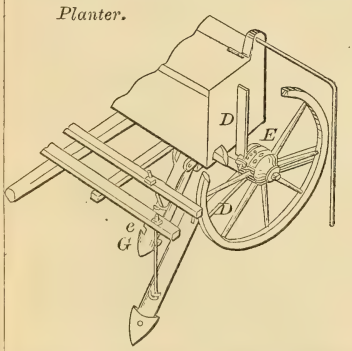

**90636**—H. D. Chance—*Burglar Alarm.*



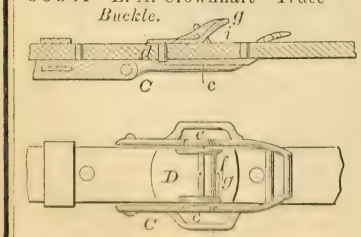

**90638**—H. Clendenen—*Saw Set.*



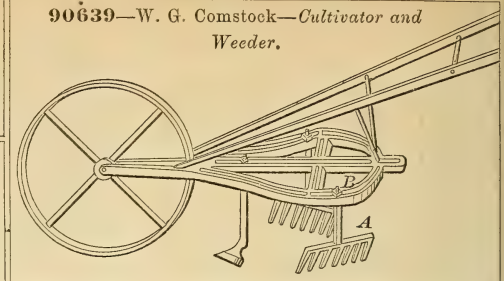

**90640**—A. Lee Crow—*Corn Planter.*



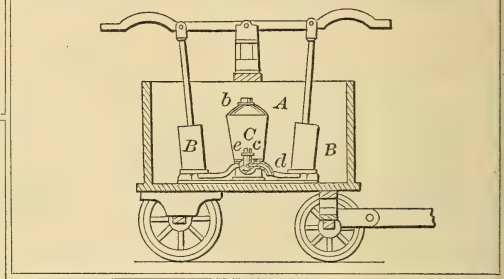

**90641**—E. A. Crownhart—*Trace Buckle.*



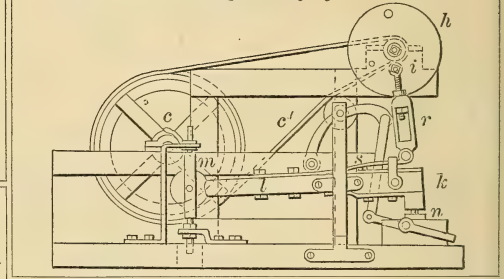

**90639**—W. G. Comstock—*Cultivator and Weeder.*



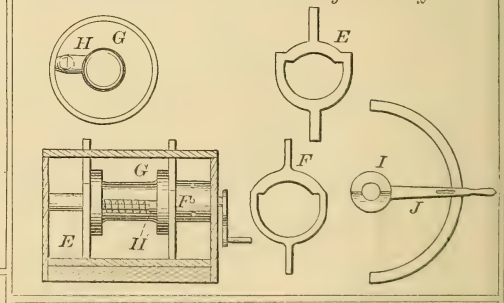

**90637**—I. H. Clark—*Chemical Fire Engine.*



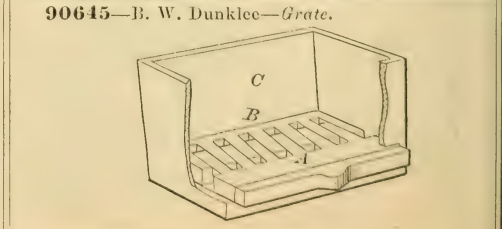

**90642**—S. B. Dodge—*Forging Hammer.*



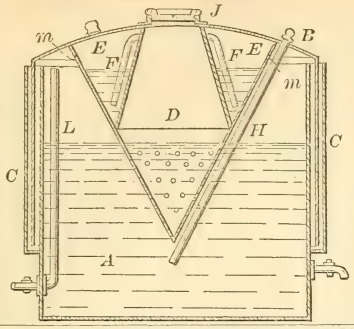

**90643**—S. Dunbar—*Steam Engine Cut-off.*



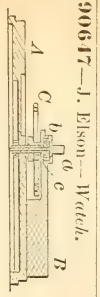

**90645**—B. W. Dunklee—*Grate.*



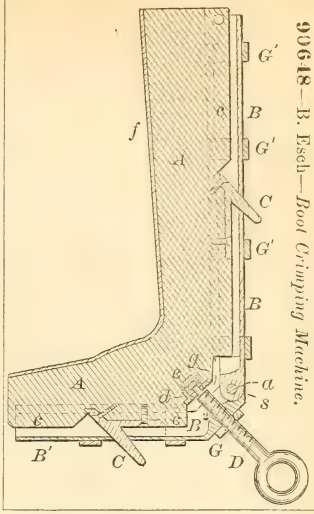
**90644**—C. F. Dunderdale—*Gas Generator and Carburettor.*



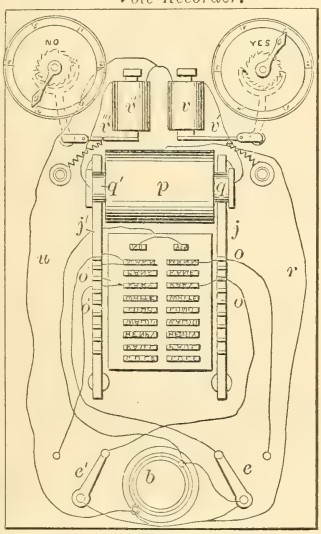

**90647**—J. Elson—*Watch.*




**90648**—B. Esch—*Boot Crimping Machine.*

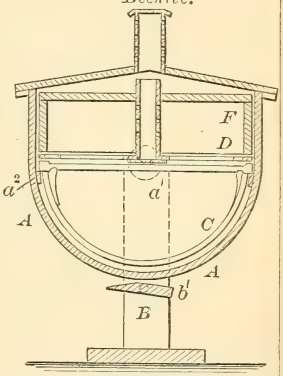



**90646**—T. A. Edison—*Electrographic Vote Recorder.*

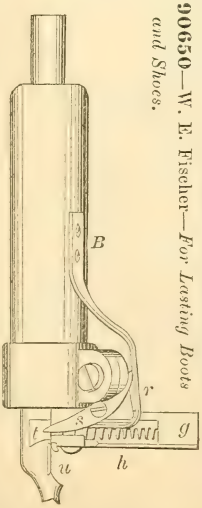



**90651**—W. E. Fischer—*Lasting Machine.*

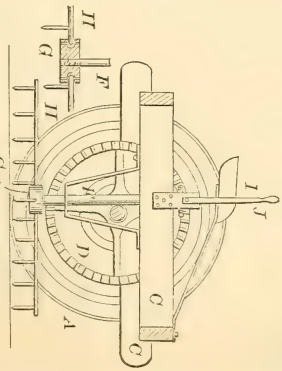
**90649**—I. B. Farquhar—*Beehive.*



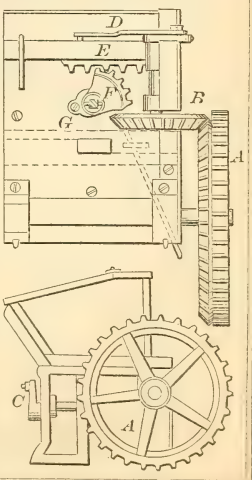

**90650**—W. E. Fischer—*For Lasting Boots and Shoes.*



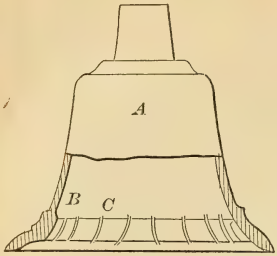

**90652**—C. P. Fisher—*Harrow.*



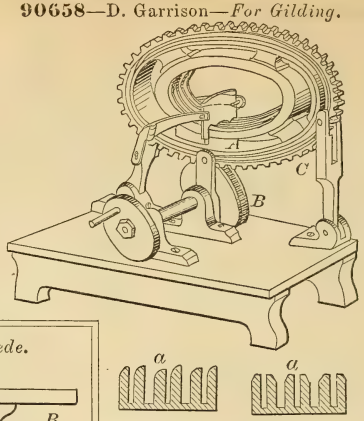

**90653**—J. F. Fisher—*Fertilizer and Seed Drill.*



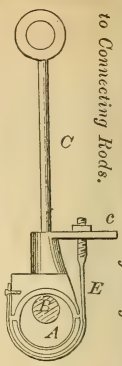
**90654**—W. Fletcher—*Bell.*



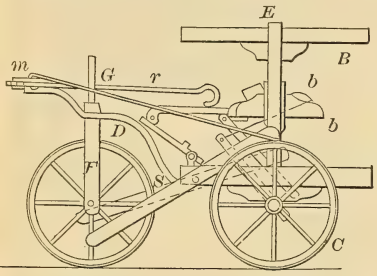

**90658**—D. Garrison—*For Gilding.*

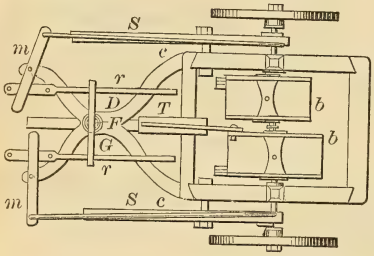



**90655**—G. Fowler—*For Adjusting Eccentrics to Connecting Rods.*

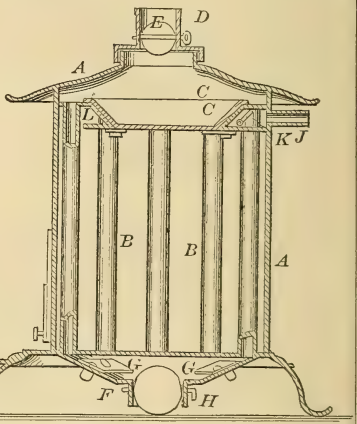



**90656**—W. Frankel—*Velocipede.*

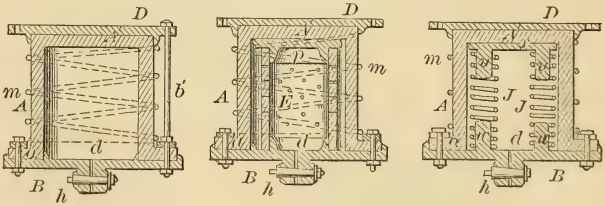


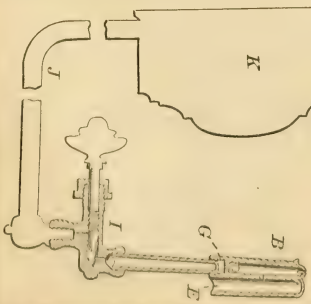

**90660**—Graves & Clark—*Stove.*



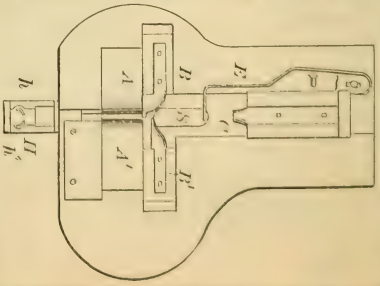

**90657**—P. G. Gardiner—*Air Spring for Railroad Cars.*



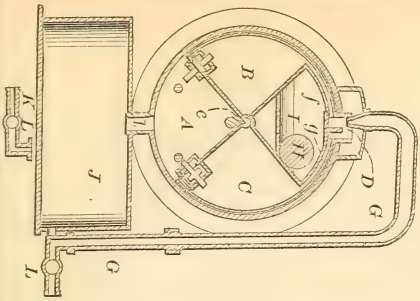

**90659**—Gates & Fritchey—*Vapor Burner.*



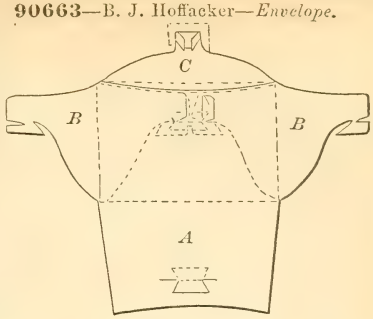

**90661**—J. L. Hall—*Bolt Machine.*



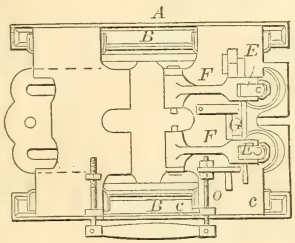
**90662**—T. C. Hargrave—*Water Meter.*

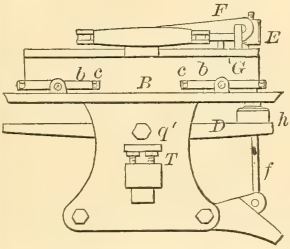


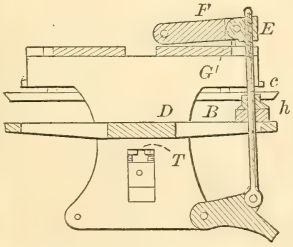

**90663**—B. J. Hoffacker—*Envelope.*



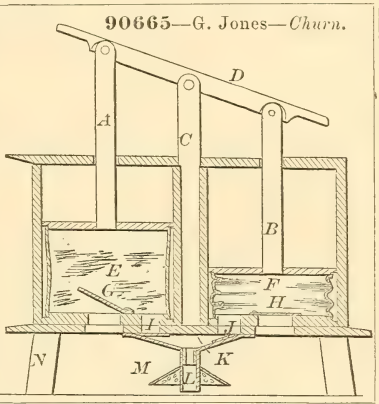

**90664**—C. Holmes—*For Scouring and Setting out Leather.*



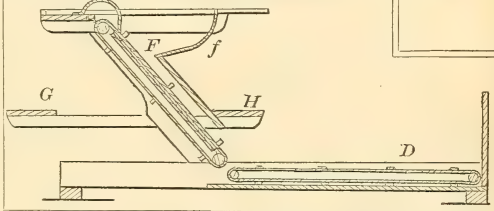




**90665**—G. Jones—*Churn.*

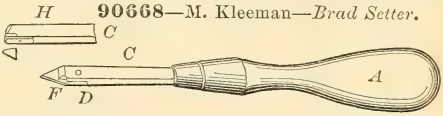



**90667**—J. W. Kingman—*Metallic Roofing.*

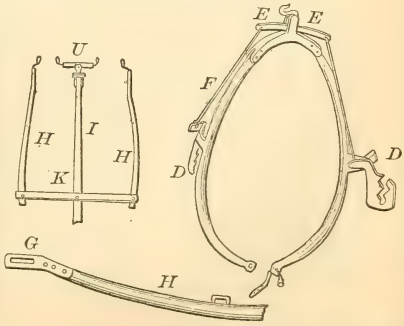
**90666**—J. H. Jones—*Harvester.*



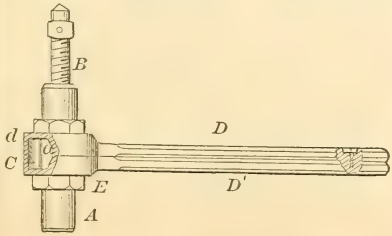

**90668**—M. Kleeman—*Brad Setter.*



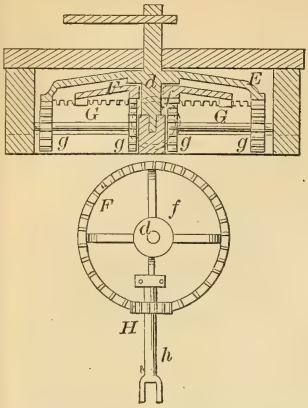

**90669**—J. L. Kreider—*Harness.*



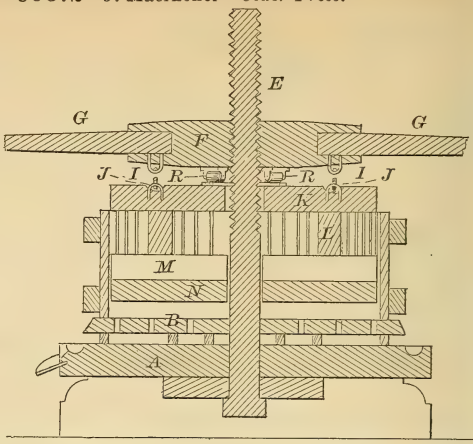

**90670**—S. Lauchli—*Drilling Apparatus.*



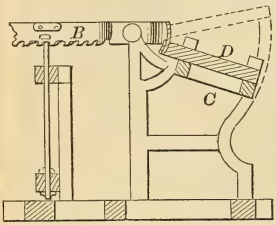
**90671**—J. E. Lutz—*Horse Power.*



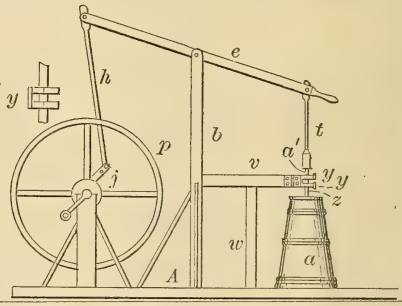

**90672**—J. Maerhoffer—*Cider Press.*



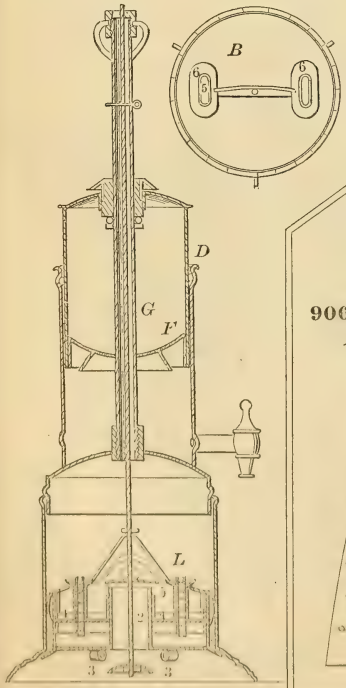

**90679**—C. Murdock—*Barrel Stave.*



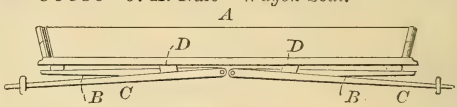

**90674**—McManus & Merryman—*Churn.*



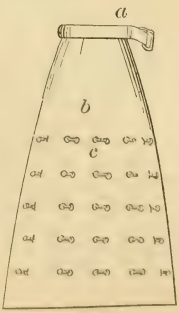

**90676**—J. Montgomery—*Coffee Pot, Boiler, Digester, Oven and Lamp.*



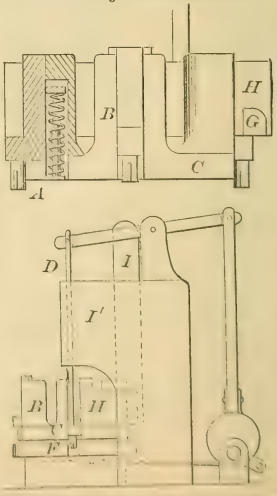

**90680**—J. H. Nale—*Wagon Seat.*



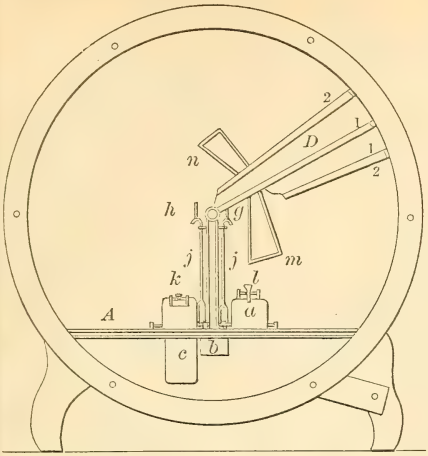

**90673**—J. Mayer—*Hoop Skirt.*

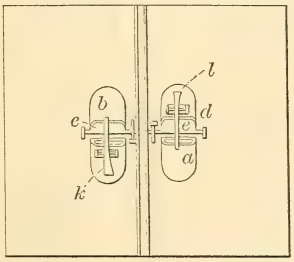


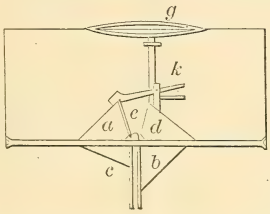

**90681**—J. S. Palmer—*For Making Button Hooks.*

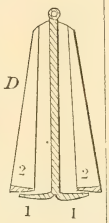


**90678**—G. R. Moore—*Gas and Water Meter.*

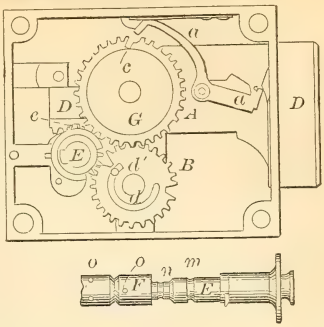


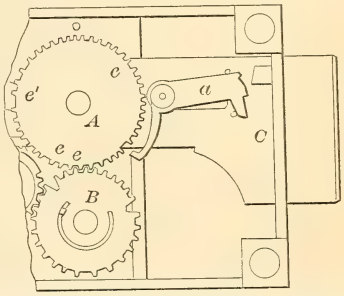



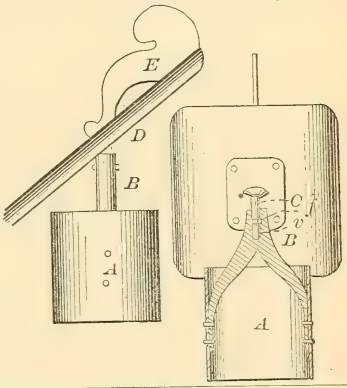

**90682**—O. E. Pillard—*Lock.*




**90683**—O. E. Pillard—*Lock.*




**90684**—J. F. Pond—*Chimney Cowl.*




**90688**—Reed & Fowle—*Dry Earth Water Closet.*

Fig. 1

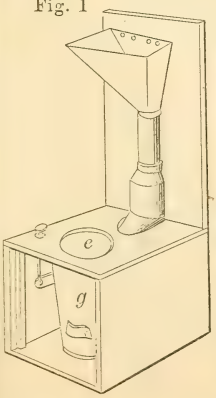
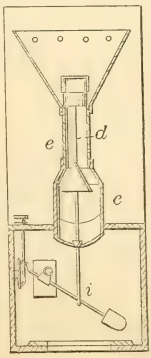
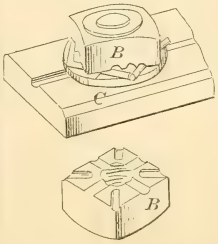


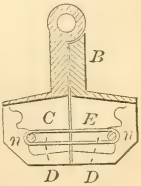

Fig. 2



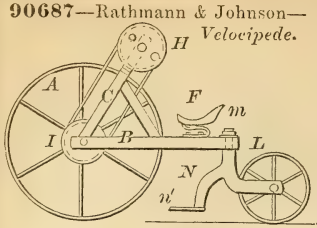

**90685**—W. P. Porter—*Nut Lock.*



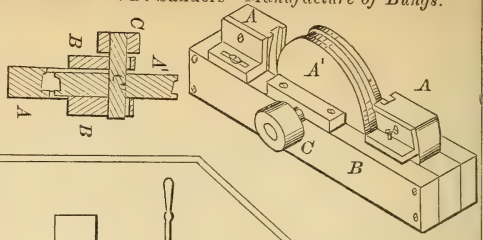

**90686**—L. Preston—*Spring Butt.*



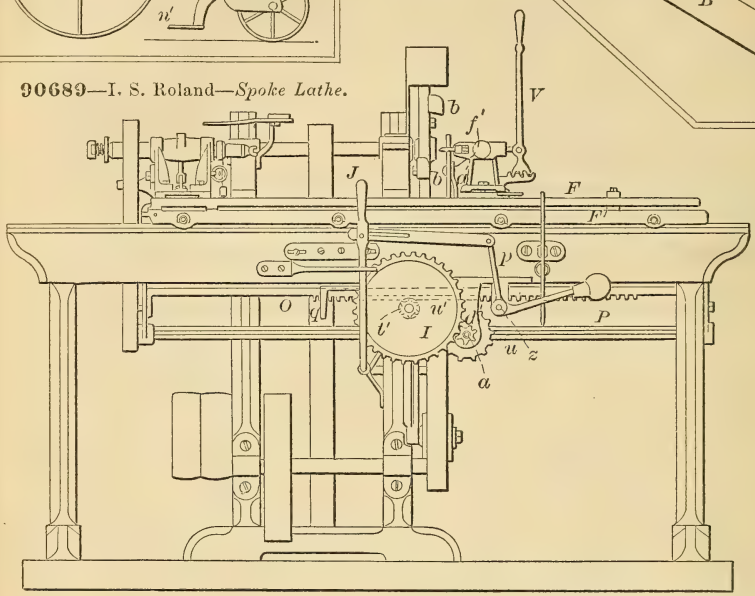
**90687**—Rathmann & Johnson—*Velocipede.*




**90690**—B. D. Sanders—*Manufacture of Bungs.*




**90689**—I. S. Roland—*Spoke Lathe.*



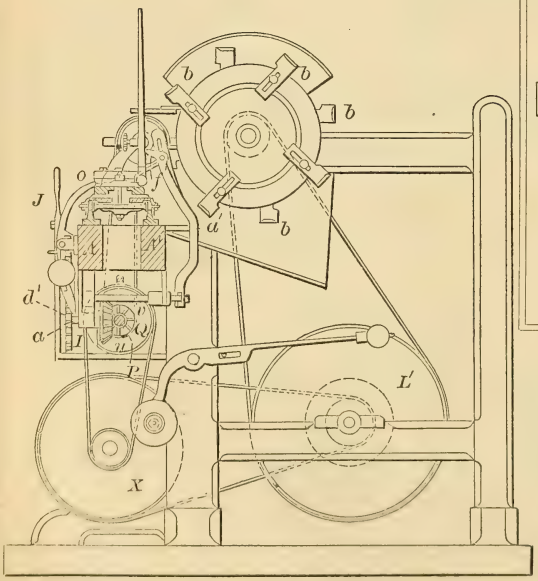
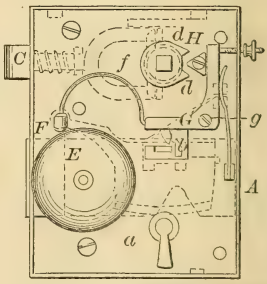
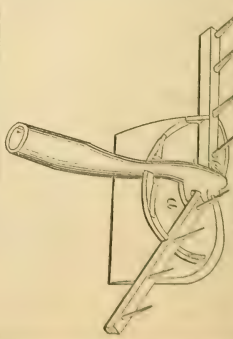




Fig. 5½

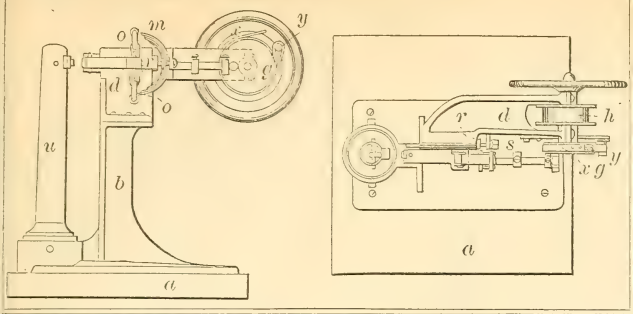
**90692**—N. Senbert—*Alarm Lock.*



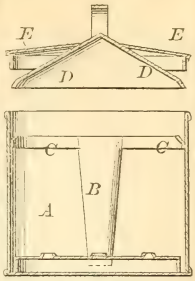

**90691**—F. Le Roy Senour—*Hoe and Rake.*



**90693**—T. Shaw—*Riveting Machine.*

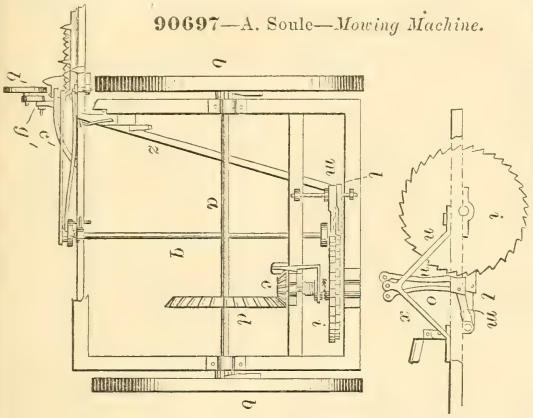


**90694**—J. Shedd—

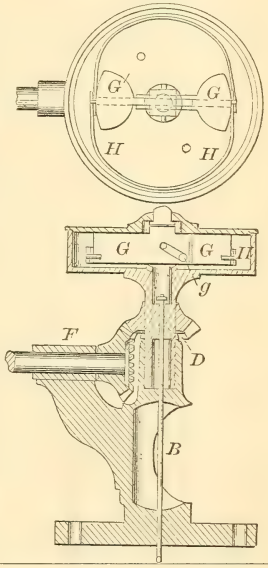


*Wash Boiler.*

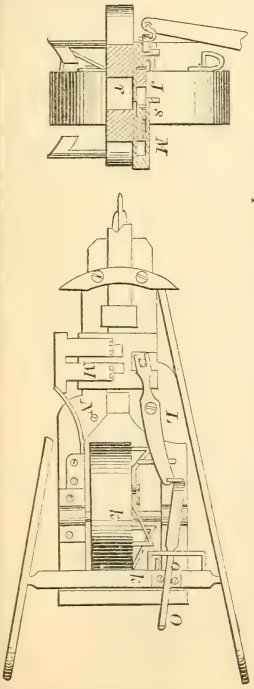
**90697**—A. Soule—*Mowing Machine.*



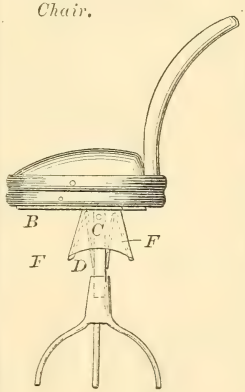
**90696**—W. Smith—*Governor.*



**90698**—M. M. Sprinkle—*Corn Planter and Fertilizer.*

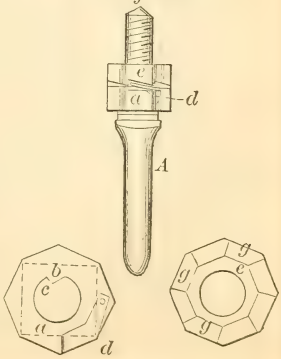


**90701**—D. E. Teal—*Chair.*

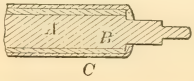


**90695**—H. J. Smith—*Paper and Print Roller.*

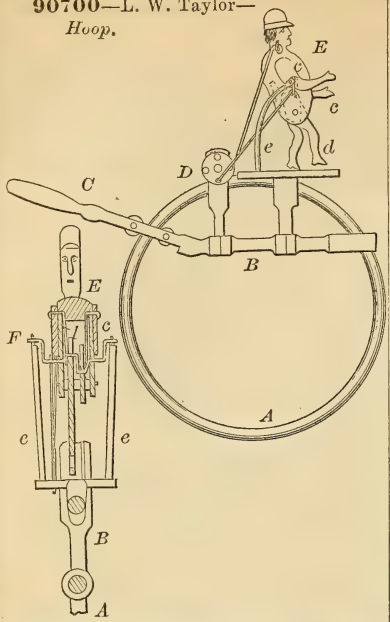
**90699**—J. J. Steward—*Locking Burr.*



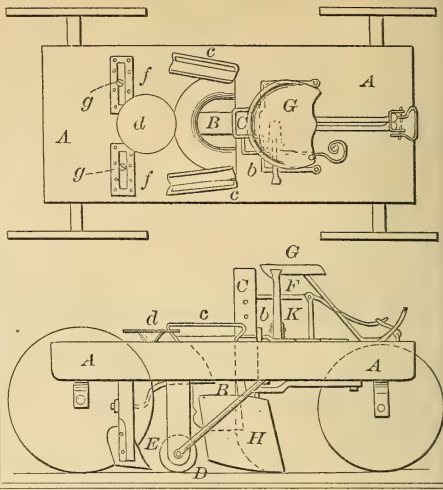
**90702**—S. D. Tucker—*Lithographic Inking Roller.*



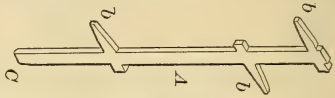
**90700**—L. W. Taylor—*Hoop.*



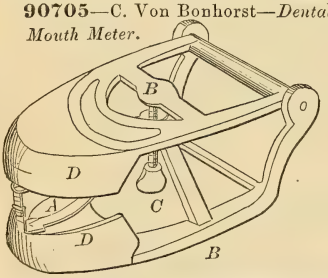

**90703**—J. J. Tucker—*Hedge Planter.*



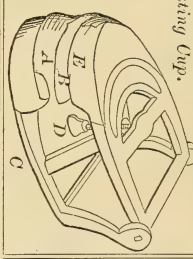

**90704**—S. D. Tuttle—*Punch and Screwdriver.*



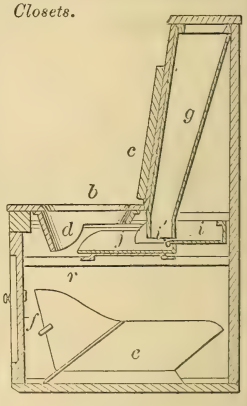

**90705**—C. Von Bonhorst—*Dental Mouth Meter.*



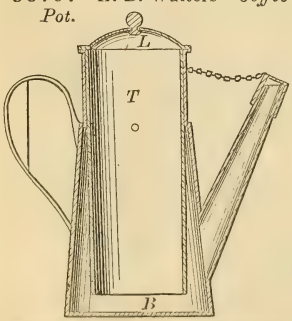

**90706**—C. Von Bonhorst—*Dental Articulating Cup.*



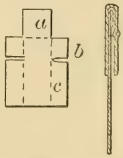

**90709**—G. E. Waring, Jr.—*For Deodorizing Water Closets.*



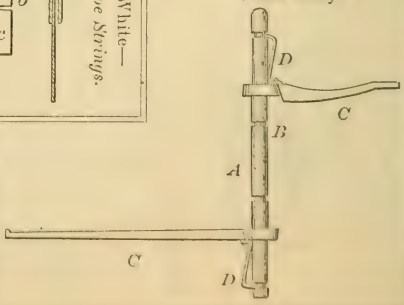

**90707**—A. B. Walters—*Coffee Pot.*



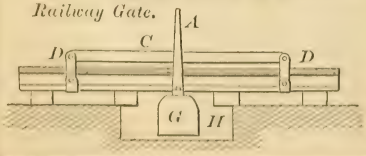

**90710**—G. H. White—*Ferrule for Shoe Strings.*



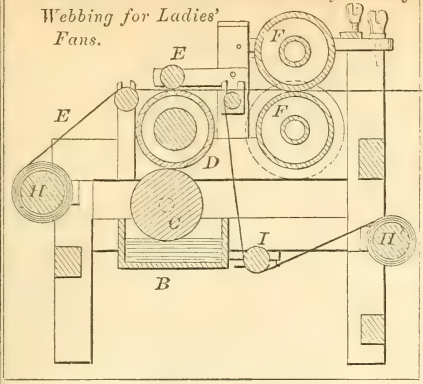

**90712**—D. D. Whitney—*Stove Shelf.*



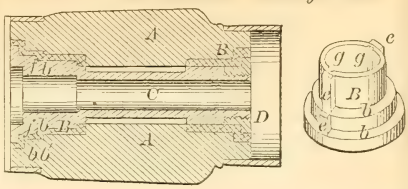

**90708**—Waltz, Soliday & Hamsher—*Railway Gate.*



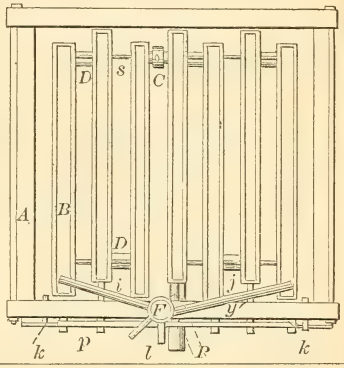
**90711**—J. W. White—*For Manufacturing Webbing for Ladies' Fans.*



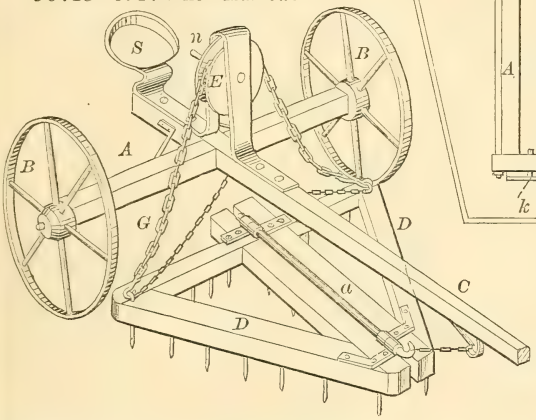

**90714**—E. G. Woodside—*Carriage Wheel.*



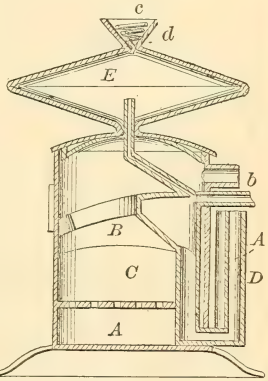

**90716**—J. Agate—*Beer Cooler.*



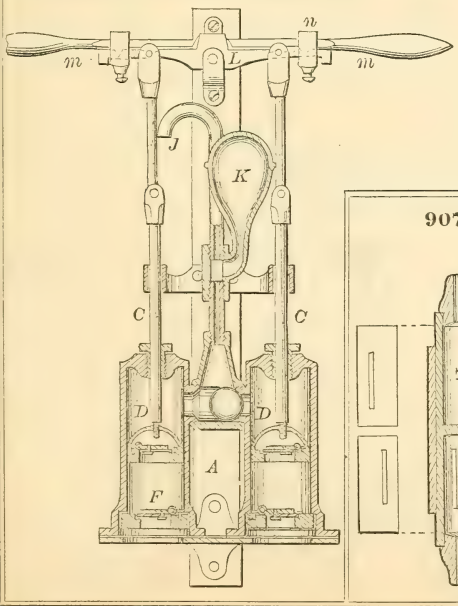

**90713**—J. P. Wile—*Harrow.*



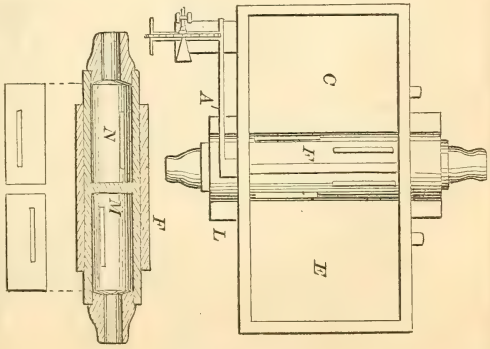

**90720**—A. C. Bacon—*Heater.*



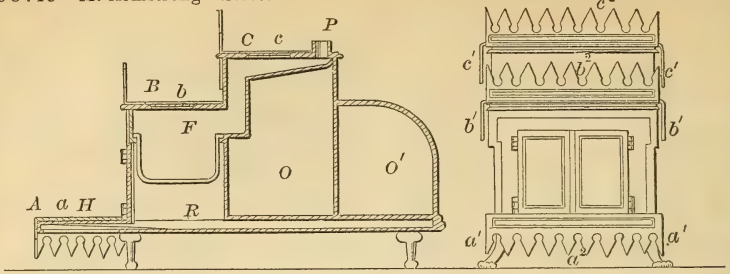

**90718**—J. S. Appel—*Pumping Lever.*



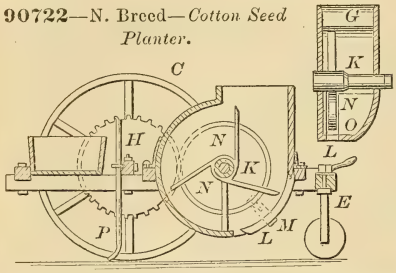

**90717**—R. N Allen—*Water Meter.*



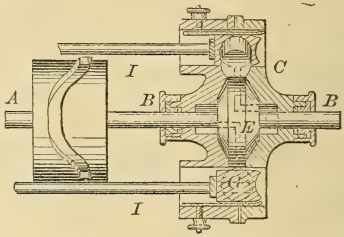
**90719**—M. Armstrong—*Stove.*



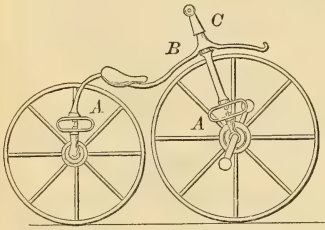

**90722**—N. Breed—*Cotton Seed Planter.*



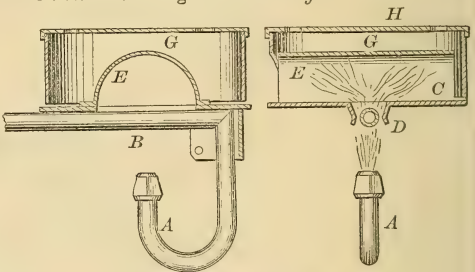

**90721**—A. Bailey—*Steam Engine.*



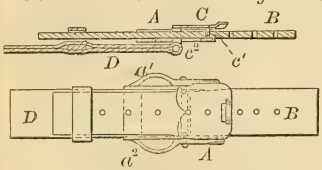

**90723**—G. C. Buell—*Velocipede.*



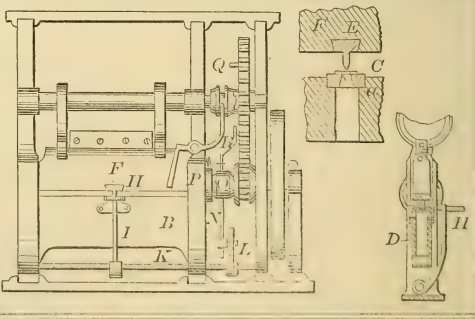

**90724**—J. Burgess—*Soldering Furnace.*




**90725**—D. S. Butler—*Tug Buckle.*

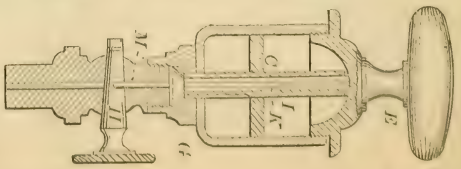



**90726**—L. Chapman—*For Forming Bits for Axes.*

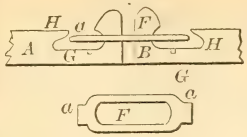



**90727**—R. A. Chesebrough—*For Preventing Canals, &c., from being Closed by Ice.*

**90728**—I. Church, Jr.—*Lubricator.*

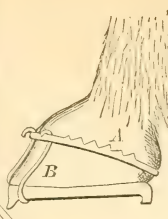


**90730**—J. W. Currier—*Car Coupling.*

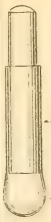



**90732**—J. Curtis—*Projectile.*

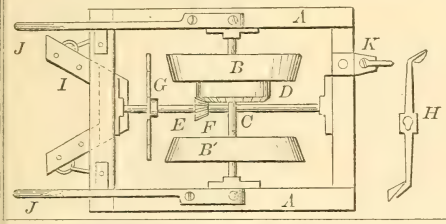
**90731**—J. W. Currier—*For Holding Interfering Bands in Place.*



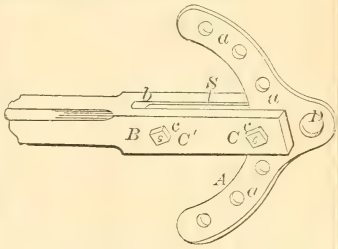

**90733**—H. T. Cushman—*Composition Paper Polisher.*



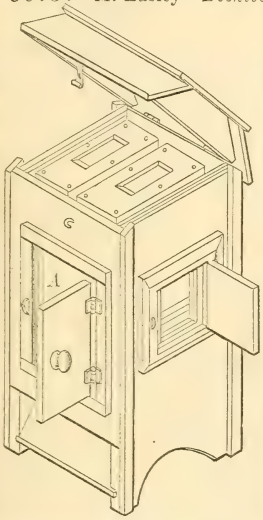

**90734**—S. C. Darden—*Cotton Cultivator.*



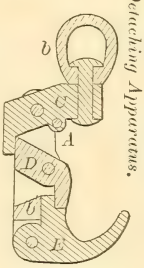

**90736**—E. Evans—*Clevis.*



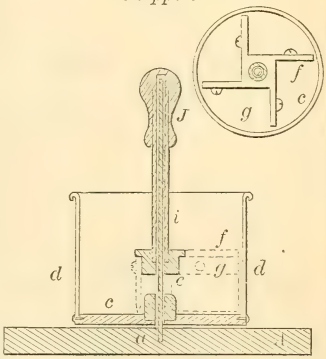

**90735**—M. Easley—*Beehive.*



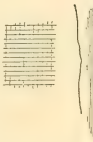

**90738**—J. Foster, Jr.—*Boat Detaching Apparatus.*



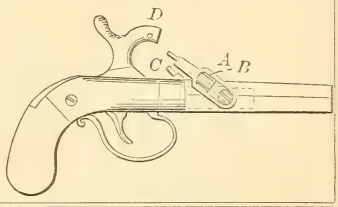

**90737**—C. H. Finson—*Meat Chopper.*



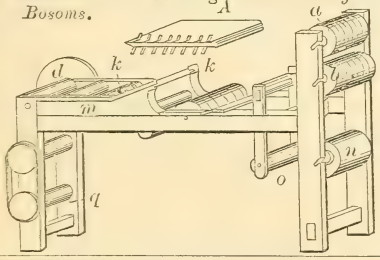

**90740**—G. Gindler—*Coating Threads with Metals.*



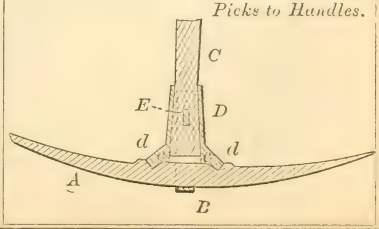
**90741**—J. W. Goodale—*Fire Arm.*



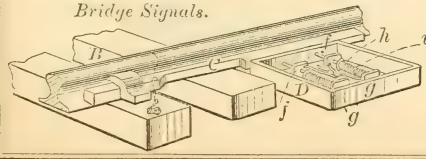

**90739**—E. P. Furlong—*For Forming Shirt Bosoms.*



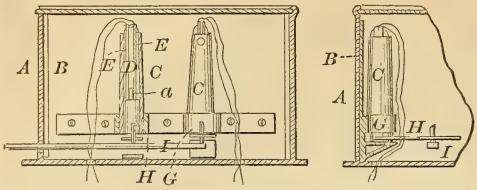

**90742**—Grover & Randall—*Attaching Picks to Handles.*



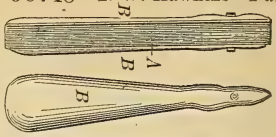

**90743**—T. S. Hall—*Connection for Draw Bridge Signals.*



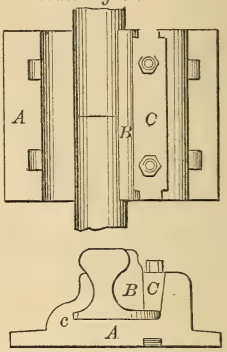
**90744**—T. S. Hall—*Switch Alarm Connection.*



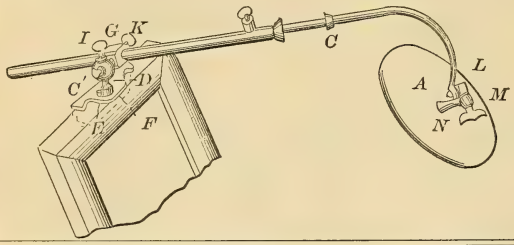

**90748**—T. W. Hawkins—*Fan.*



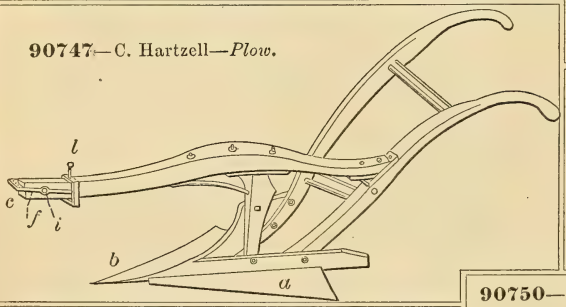

**90745**—C. A. Harris—*Railway Chair.*



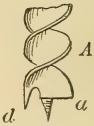

**90746**—C. J. Hartmann—*Looking Glass Attachment.*



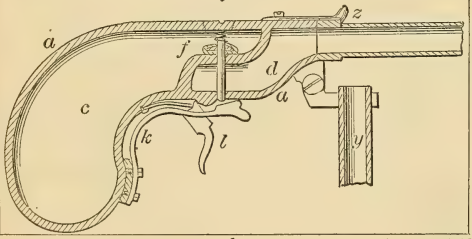

**90747**—C. Hartzell—*Plow.*



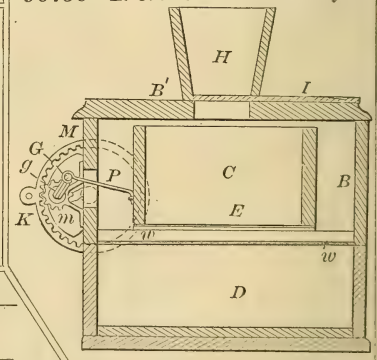

**90755**—W. A. Ives—*Auger Bit.*



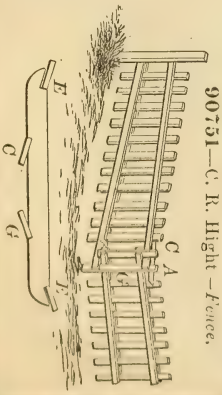

**90749**—E. H. Hawley—*Air Gun and Pistol.*



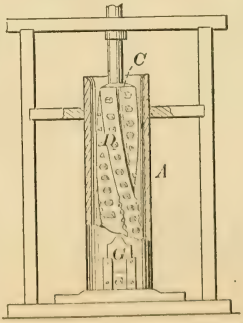

**90750**—E. C. Hickman—*Flour Sifter*




**90751**—C. R. Hight—*Fence.*

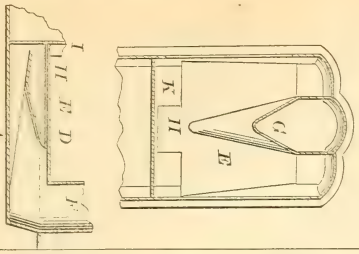



**90752**—S. R. Hockman—*Hulling Machine.*

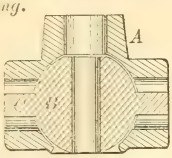



**90753**—J. Honecker—*Boot and Shoe Top.*

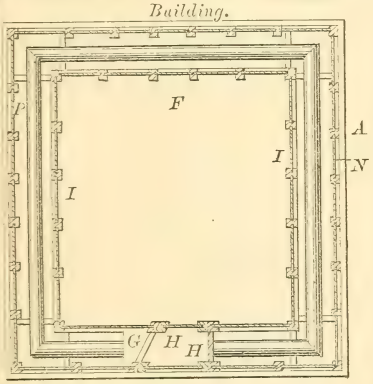
**90756**—W. J. Keep—*Stove.*



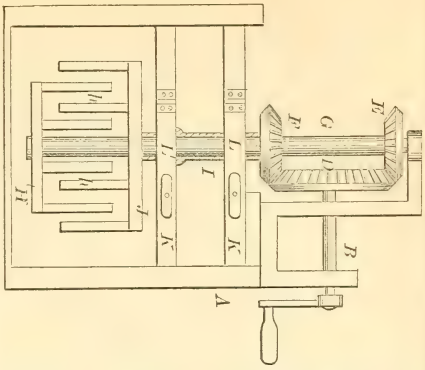

**90757**—A. J. Langworthy—*Shaft Coupling.*



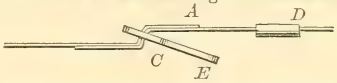

**90760**—F. Ludlow—*Horticultural Building.*



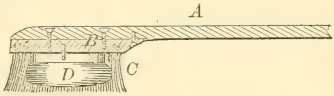

**90758**—S. Leach—*Churn.*




**90761**—E. T. Mainwaring—*Cotton Bale Tie.*

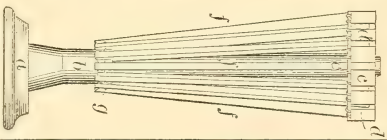



**90763**—J. Marshall—*Bath Brush.*

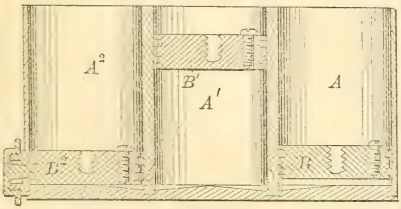



**90759**—H. C. Lewis—*Auger Bit.*

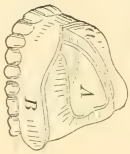
**90764**—J. McCaskey, Jr.—*Clothes Dryer.*



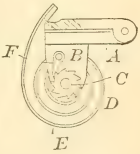

**90766**—J. A. McClelland—*For Treating Collodion and its Compounds.*



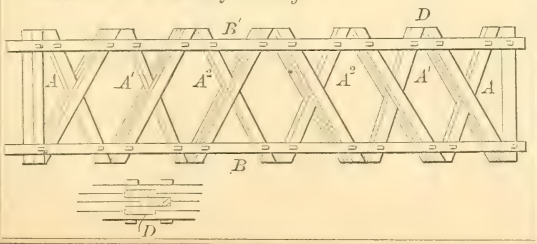

**90765**—J. A. McClelland—*Dental Plate.*



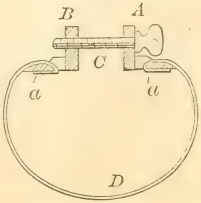

**90769**—H. B. Middaugh—*Hinge.*



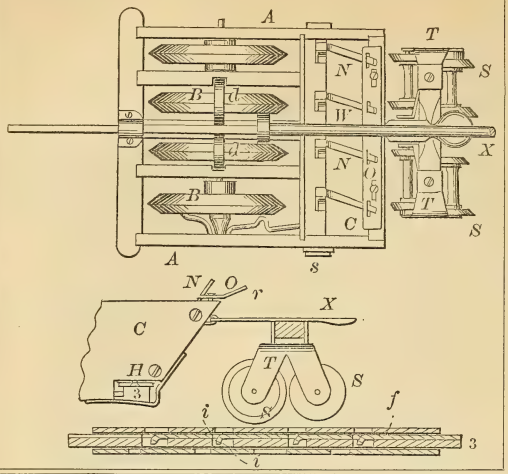

**90767**—J. A. McKay—*Bridge.*



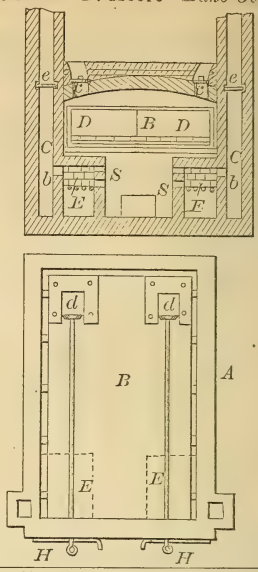

**90768**—C. S. Meeker—*Clamp.*



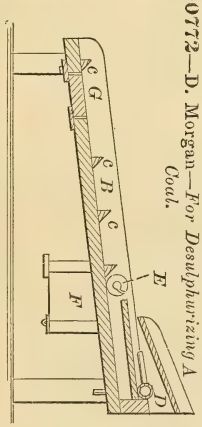
**90770**—O. F. Momany—*Roller Grain Drill.*



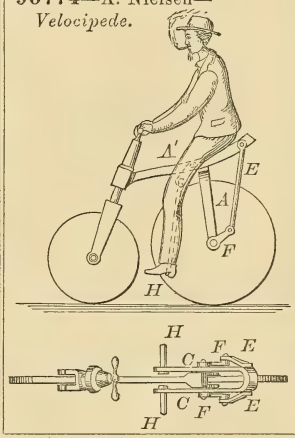

**90771**—D. Moore—*Bake Oven.*



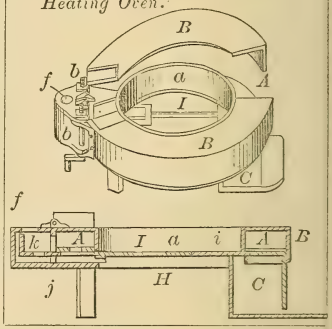

**90772**—D. Morgan—*For Desulphurizing Coal.*



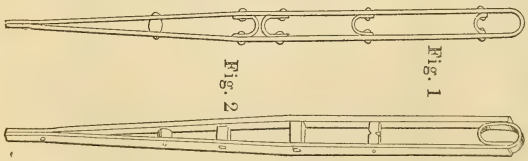

**90774**—A. Nielsen—*Velocipede.*



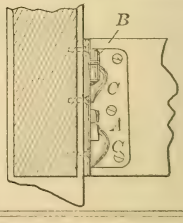

**90775**—C. G. Nye—*Tire Heating Oven.*




**90773**—E. G. Nichols—*Fence Post.*

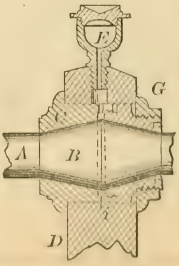



**90776**—T. O'Keefe—*Bedstead Fastening.*

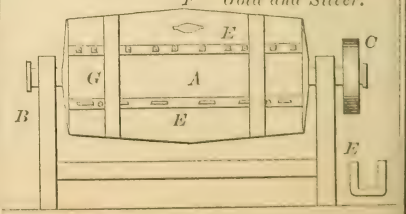



**90780**—C. D. Purdy—*Bedstead Fastening.*

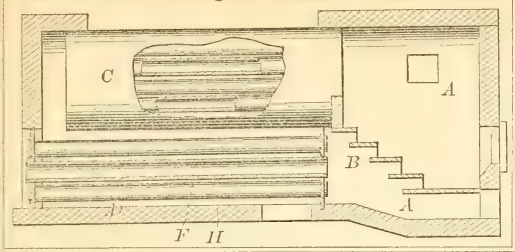
**90781**—S. W. Putnam, Jr.—*Bearing for Spindles and Shafts.*



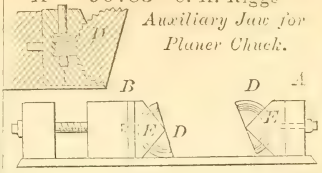

**90777**—A. B. Paul—*Amagalmator for Gold and Silver.*



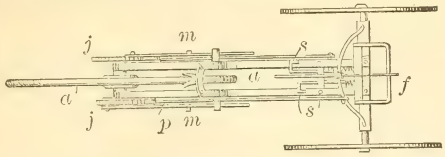
**90778**—I. C. Pennington—*Steam Generator Furnace.*

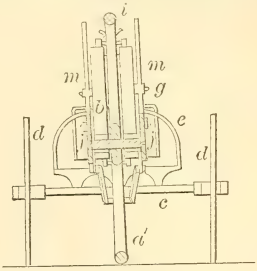



**90783**—C. H. Riggs—*Auxiliary Jaw for Planer Chuck.*

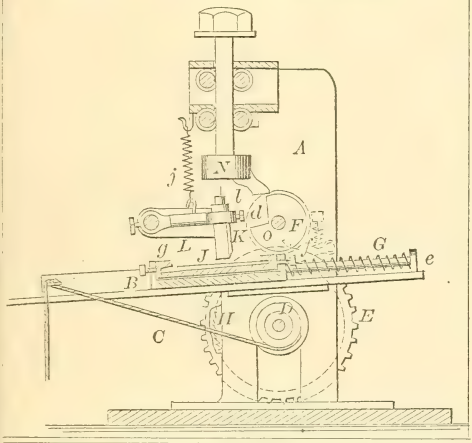



**90782**—G. P. Reed—*Velocipede.*

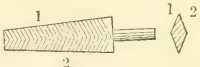


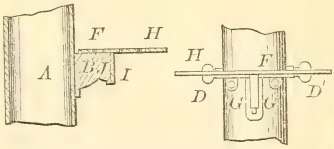

**90788**—Schultz & Renne—*File Machine.*



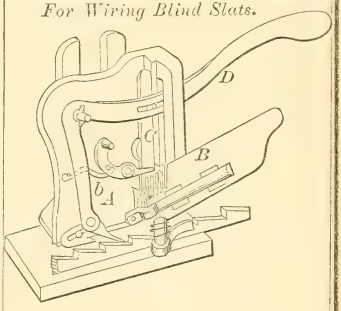

**90784**—W. Roberts—*Saw File.*



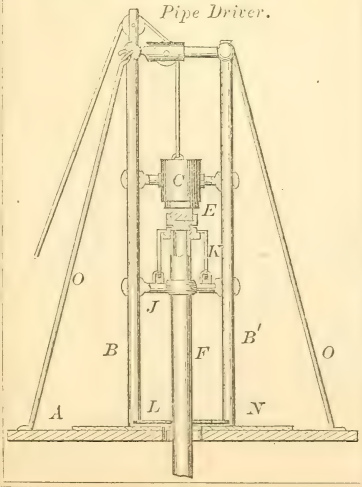

**90785**—O. Ruggles—*Stove Pipe Shelf.*



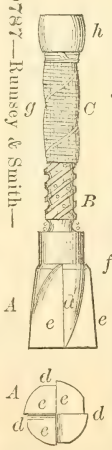

**90789**—Seymour & Whitlock—*For Wiring Blind Slats.*



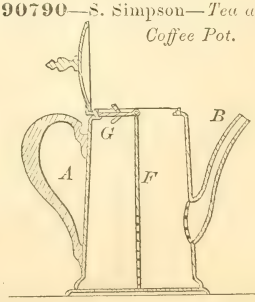

**90786**—Rumsey & Smith—*Pipe Driver.*



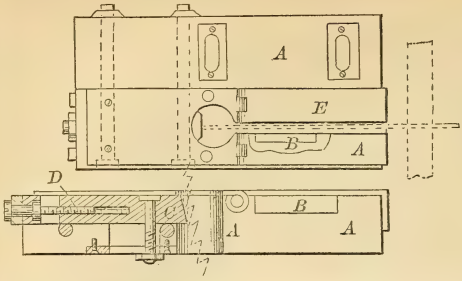

**90787**—Rumsey & Smith—*Drill for Rock and Earth with Attached Tube.*



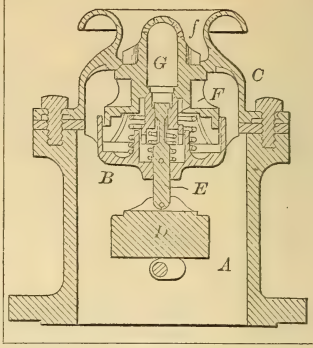

**90790**—S. Simpson—*Tea and Coffee Pot.*



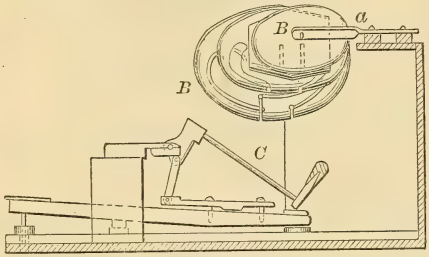
**90791**—G. A. Smith—*Saw Guide and Jointer.*

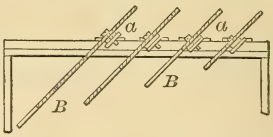



**90794**—Taylor & Coale—*Safety Valve.*

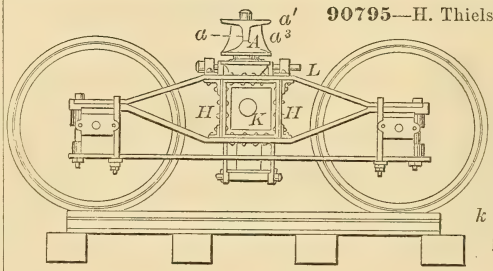


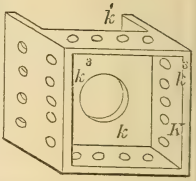

**90793**—F. Suter—*Musical Instrument.*

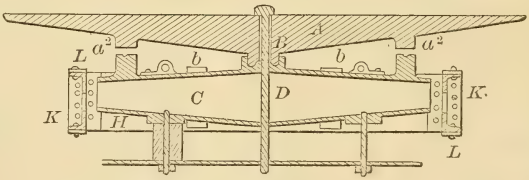


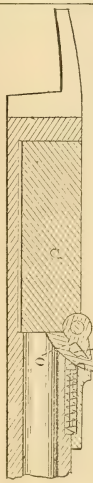

**90795**—H. Thielsen—*Car Truck.*



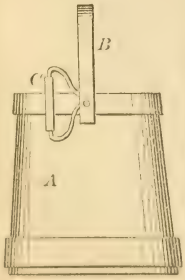



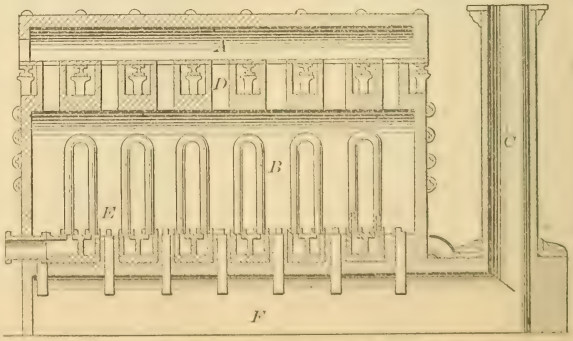

**90792**—W. S. Smoot—*Fire Arm.*



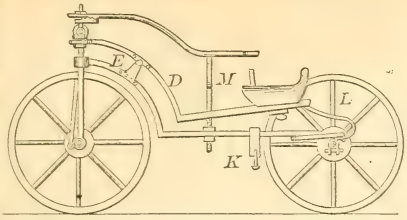

**90798**—J. H. Tomlinson—*Bucket.*

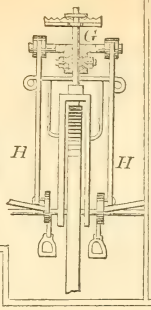



**90796**—S. & J. Thomas—*Oven for Iron Furnaces.*

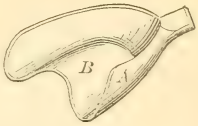


**90797**—H. Thompson—*Velocipede.*

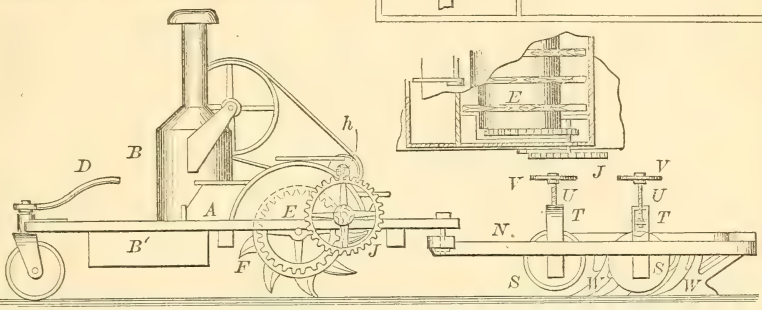


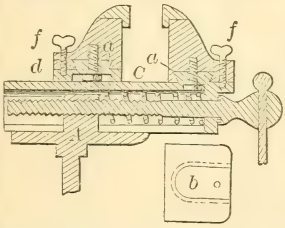

**90802**—C. L. Wuestenberg—*Dental Cup.*



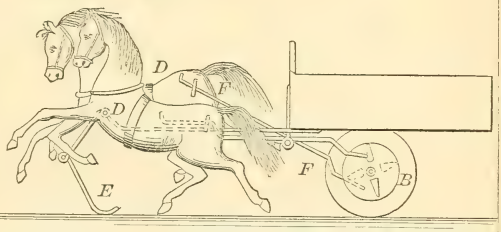

**90799**—S. B. Wilkins—*Steam Plow.*



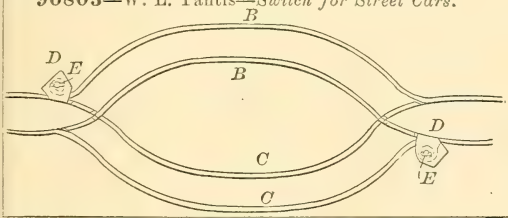

**90800**—J. B. Willett—*Vise.*



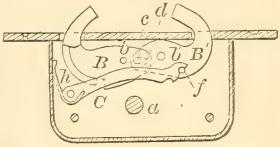

**90801**—D. Willis—*Toy.*



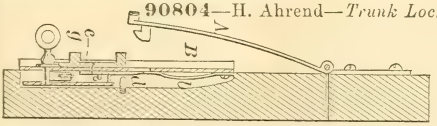

**90803**—W. L. Yantis—*Switch for Street Cars.*



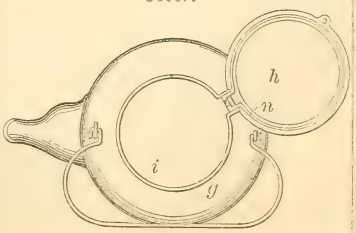

**90805**—H. Ahrend—*Lock for Pianos, &c.*



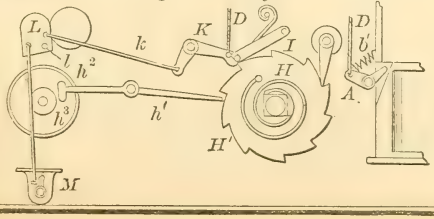

**90804**—H. Ahrend—*Trunk Lock.*



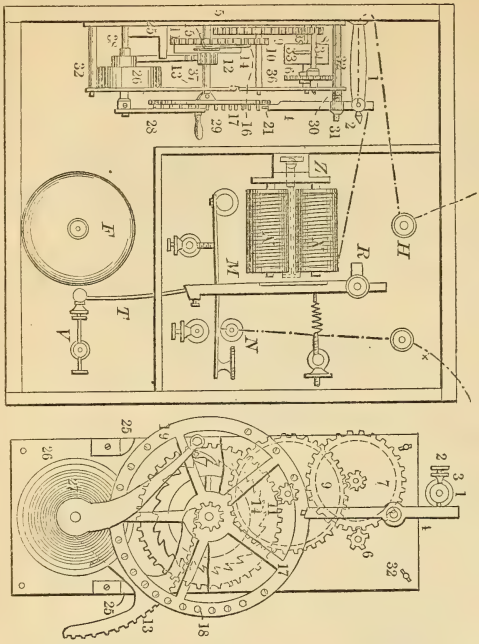

**90808**—E. S. Atwood—*Tea Kettle Cover.*



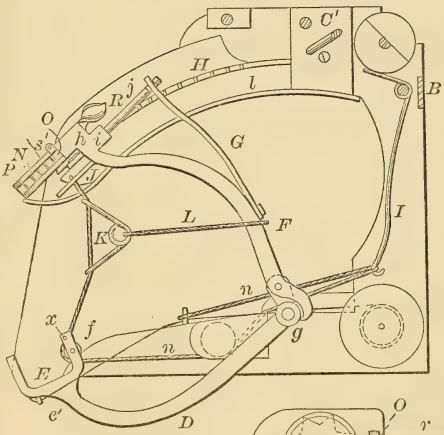

**90809**—H. Bergstein—*Burglar Alarm.*

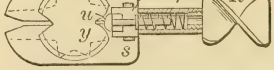


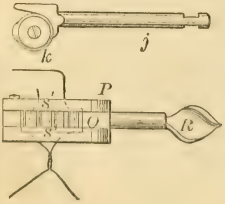
**90806**—A. Allen—*Fire Alarm Apparatus.*



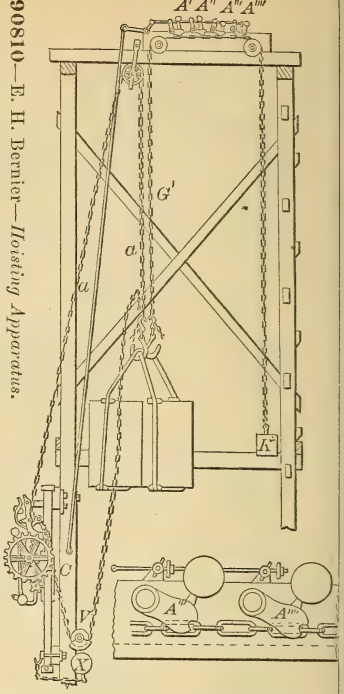
**90807**—J. F. Appleby—*Grain Binder.*



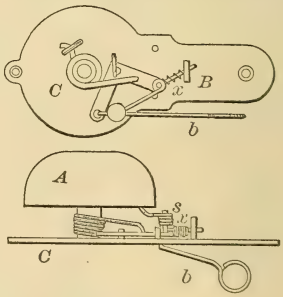




**90810**—E. H. Bernier—*Hoisting Apparatus.*

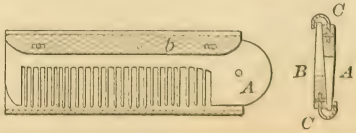


**90811**—A. G. Bevin—*Bell.*

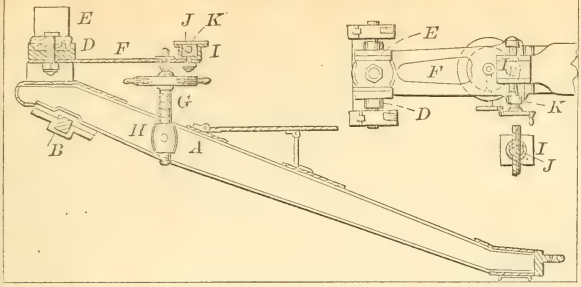


**90812**—Boon & Mills—*Halter Hitch.*

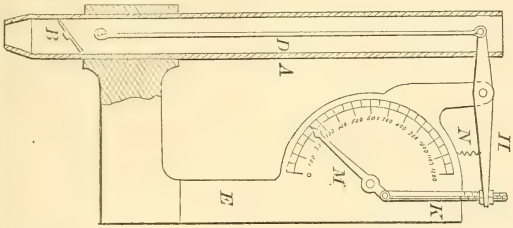
**90816**—Brown & Noyes—*Comb*



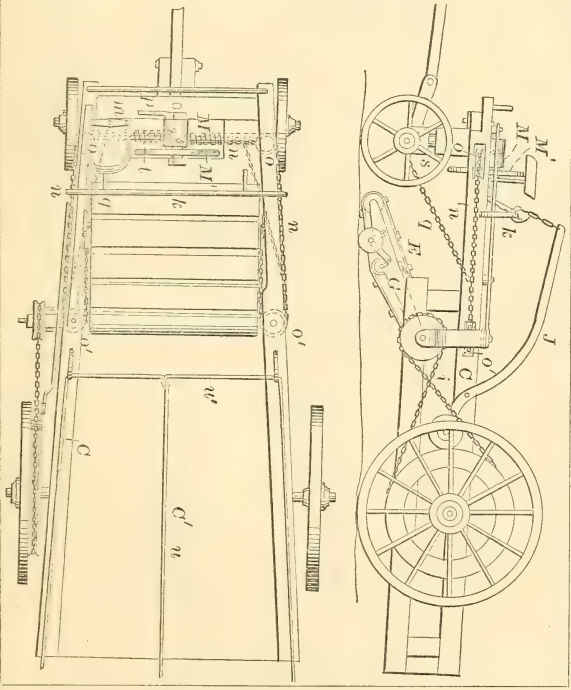
**90814**—L. W. Broadwell—*Gun Carriage.*



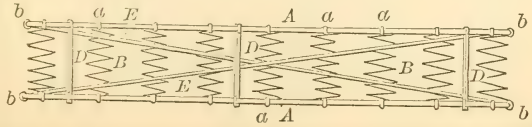

**90815**—E. Brown—*Pyrometer.*



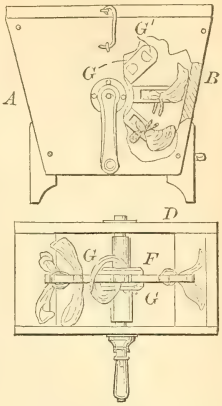

**90818**—H. P. Burdick—*Hay Rake and Loader.*



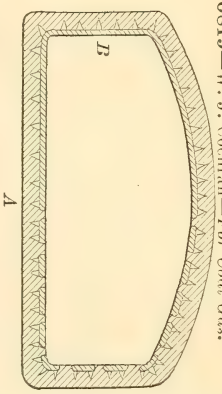

**90820**—Cooper & Monroe—*Bed Bottom.*



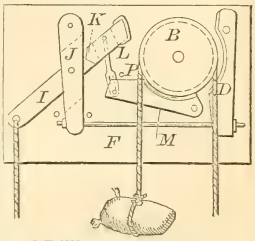

**90817**—F. Buckelew—*Washing Machine.*



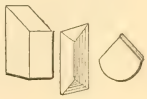

**90819**—W. J. Cochran—*For Coal Gas.*



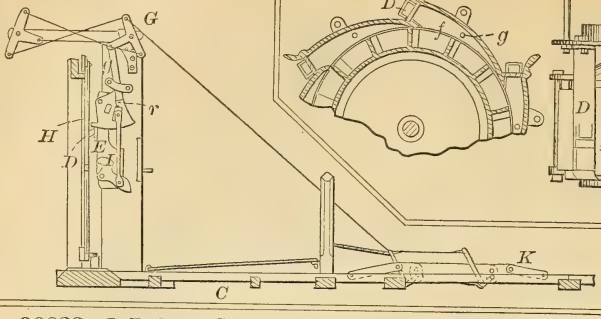

**90823**—L. Cutting—*Hoisting Apparatus.*



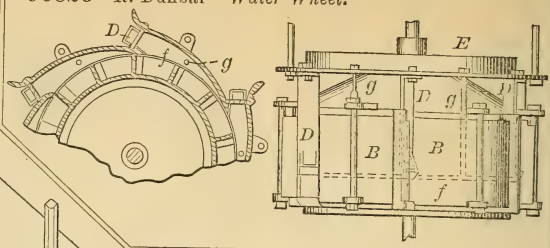

**90824**—J. Dickinson—*Preparation of Mineral Carbon for the Arts.*



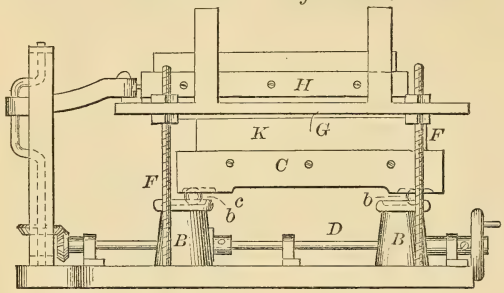
90821—R. P. & E. B. Crane—*Railway Gate.*

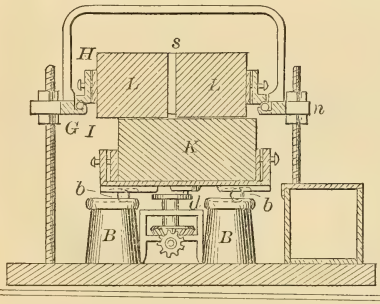



90826—R. Dunbar—*Water Wheel.*

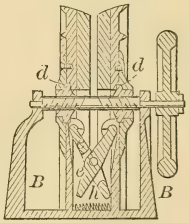



90822—J. T. Cree—*Stone Dressing Machine.*

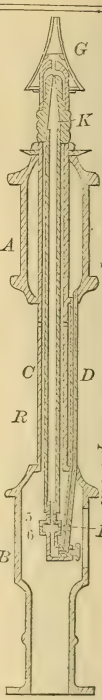


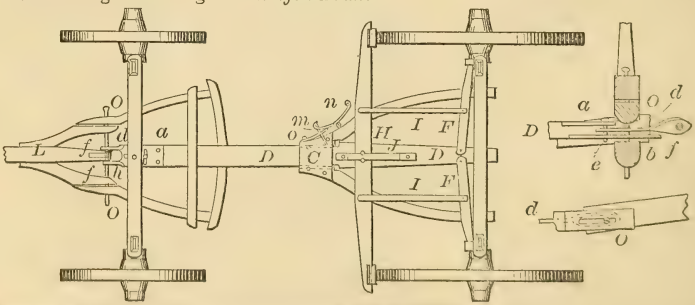

90828—J. A. Eldridge—*Boot Crimper.*



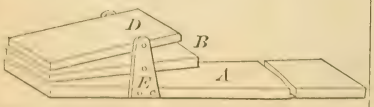

90830—B. D. Evans—*Vapor Burner and Lamp Post.*



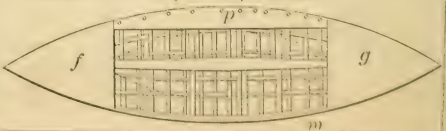

90829—English & Rogers—*Wagon Brake.*



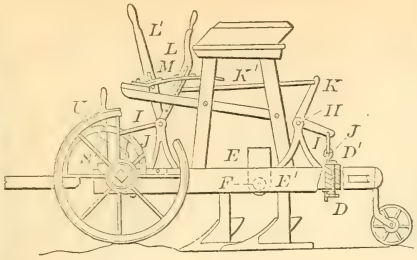

90832—G. F. Fessenden—*Castanets.*



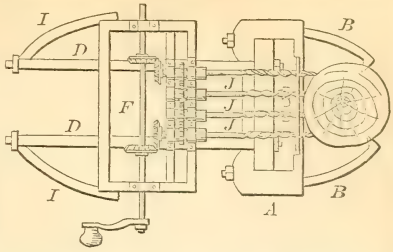

90833—C. D. Flynt—*Life Boat.*

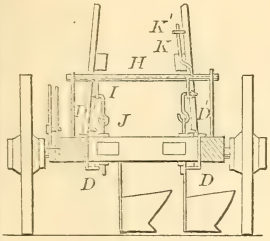


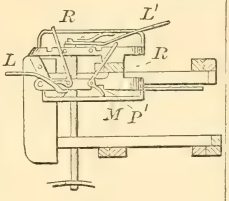
**90831**—C. A. Fargo—*Gang Plow.*



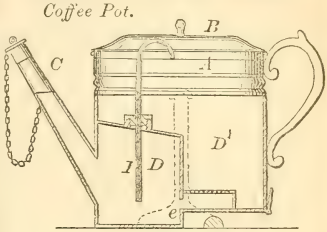

**90834**—M. R. Fory—*For Felling Trees.*



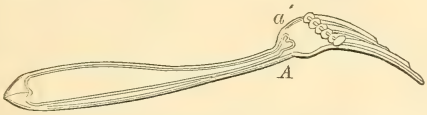



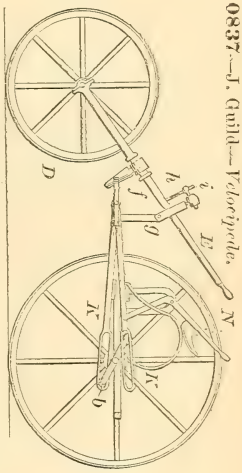

**90835**—T. F. Frank—*Tea and Coffee Pot.*



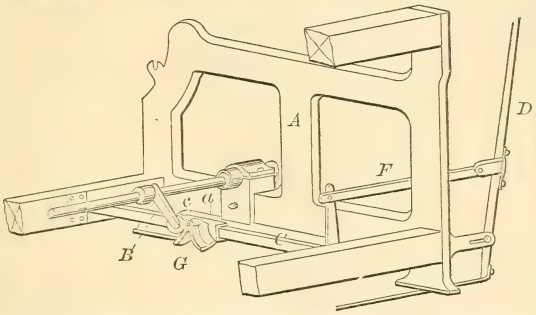

**90836**—W. L. Gilroy—*Green Corn Fork.*



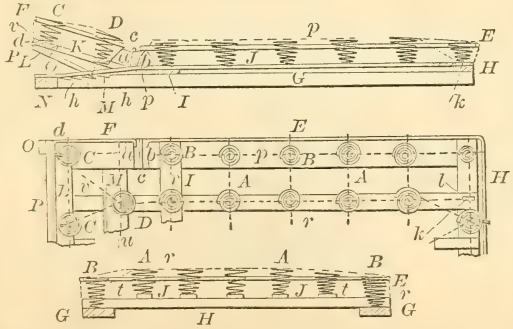

**90837**—J. Guild—*Velocipede.*

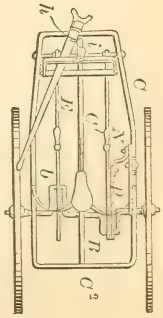



**90838**—E. J. Hall—*Loom Picker Shoe.*

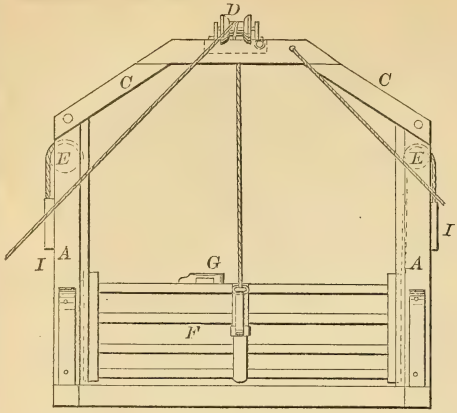


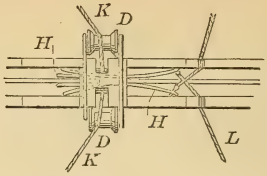

**90840**—W. Haworth—*Bed Bottom.*



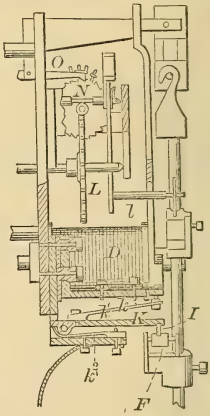



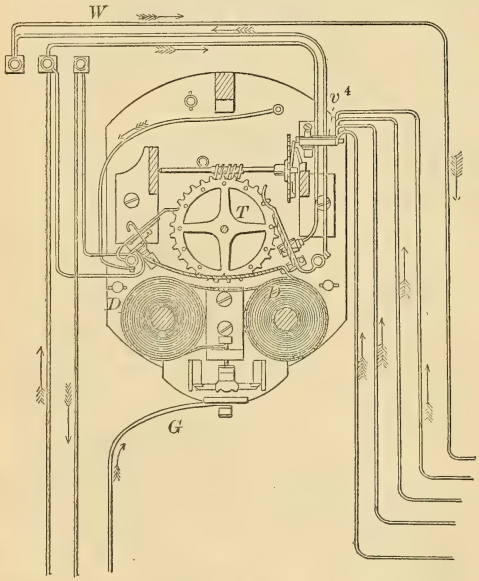
**90839**—T. F. Hall—*Gate.*

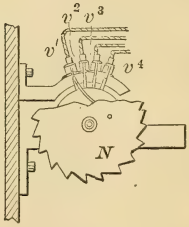


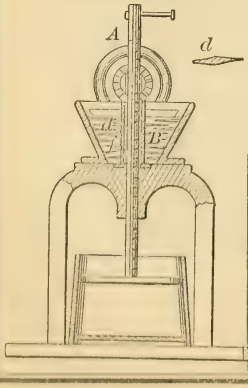

**90841**—M. Hipp—*Electric Clock.*



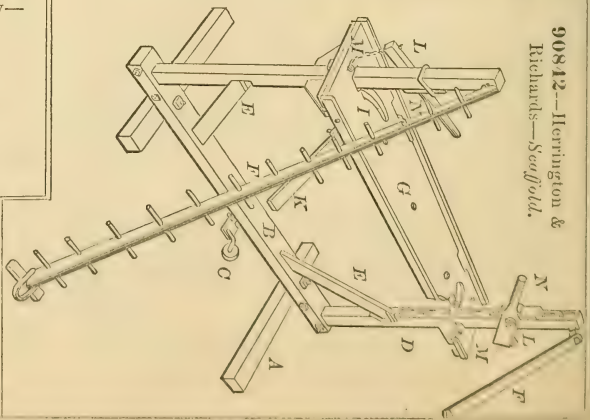



**90843**—F. & G. F. Hovey—*Cider Mill and Press.*

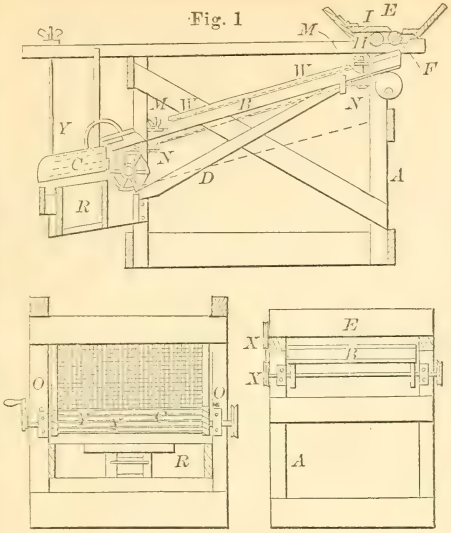



**90842**—Herrington & Richards—*Scaffold.*

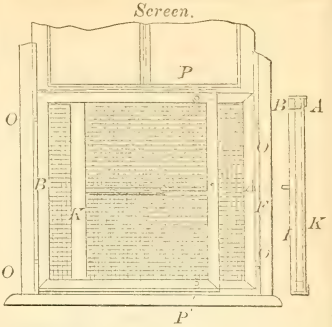


90844—A. Hunter—*Grain Separator.*

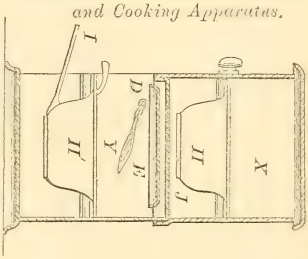
Fig. 1



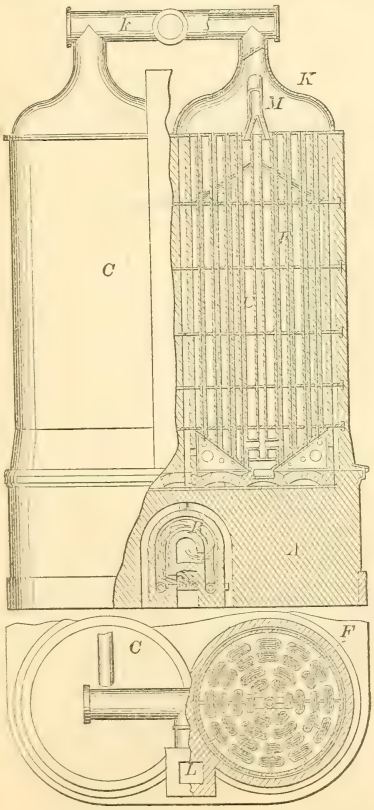

90845—D. N. Hurlbut—*Window Screen.*



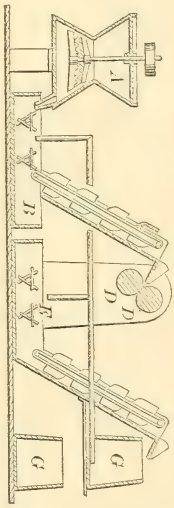

90846—F. A. Jacquet—*Heating and Cooking Apparatus.*



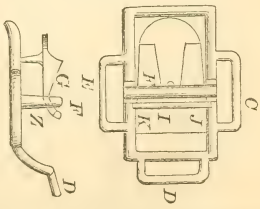

90847—Johnson & Milson—*Grain Dryer.*



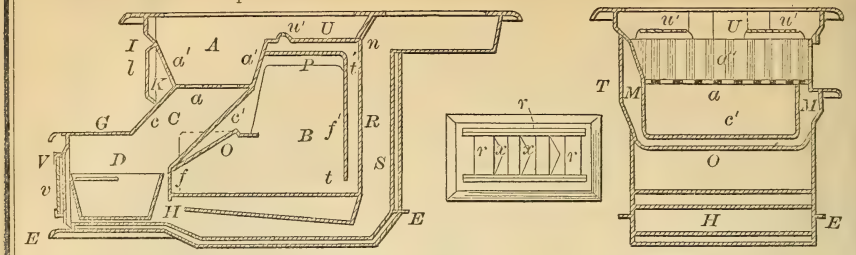

90848—T. W. Johnson—*For Making Extracts from Tan Bark.*



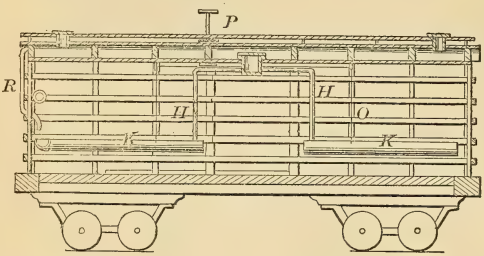

90849—W. V. Kay—*Buckle.*

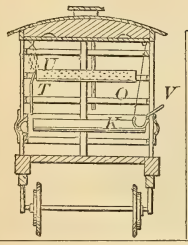


90850—W. J. Keep—*Stove.*



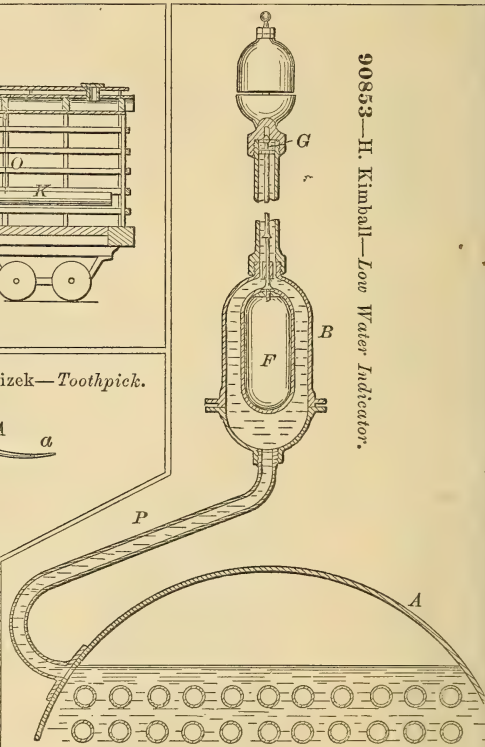

90851—J. S. Kendall—*Stock Car.*



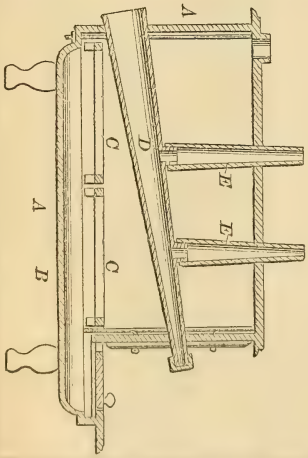




90855—A. Krizek—*Toothpick.*

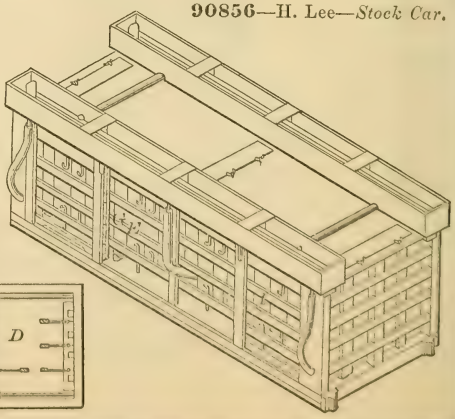
90853—H. Kimball—*Low Water Indicator.*

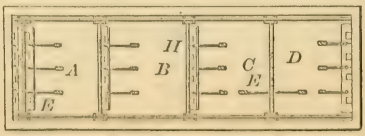



90852—N. Keyser—*Stove.*

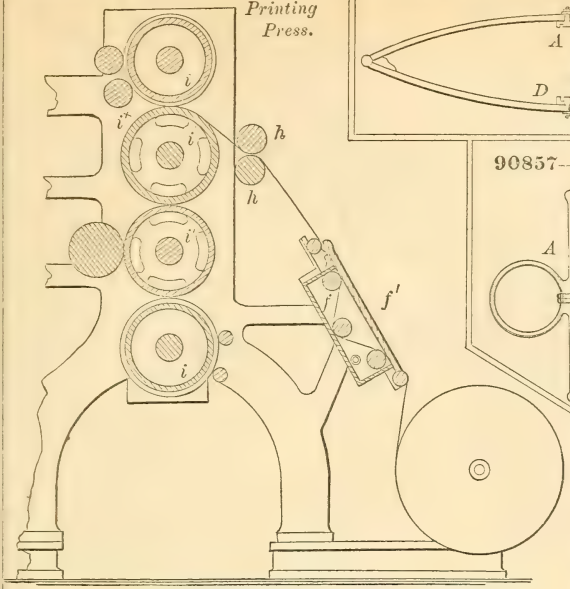



90856—H. Lee—*Stock Car.*

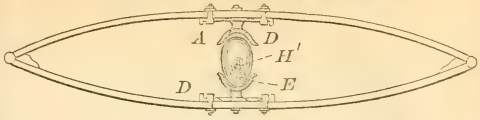




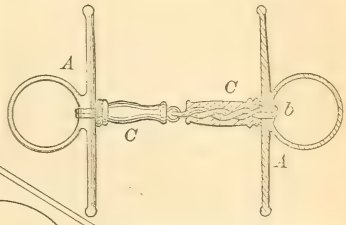
**90858**—MacDonald & Calverley—*Printing Press.*



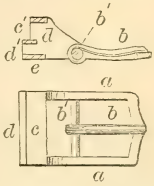

**90861**—E. P. McCarthy—*Wagon Spring.*

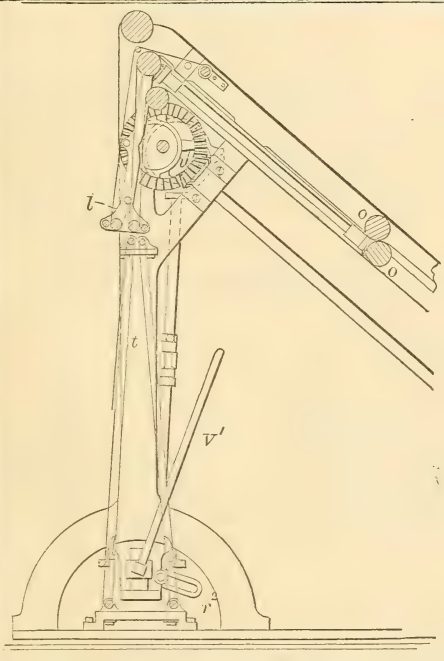



**90857**—J. Letchworth—*Bridle Bit.*

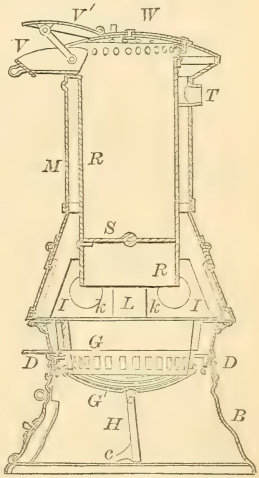



**90859**—Maclean & Harris—*Buckle.*

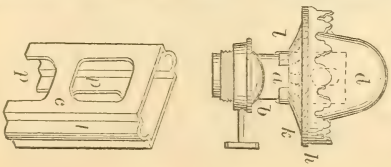


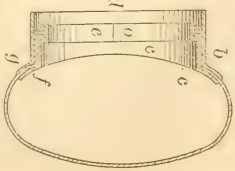

**90860**—H. C. March—*Stove.*



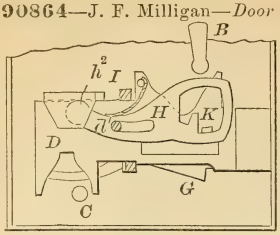

**90863**—Merrill & Carleton—*Lamp Burner.*



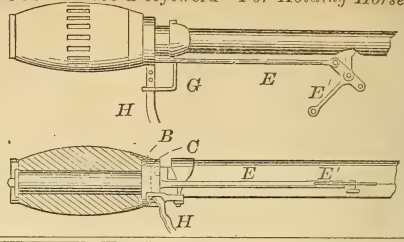

**90862**—F. H. Merrill—*Stove Pipe Collar.*



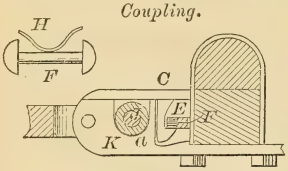
**90864**—J. F. Milligan—*Door Lock.*



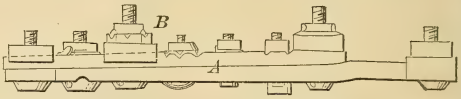

**90865**—Moore & Aylwerd—*For Holding Horses.*



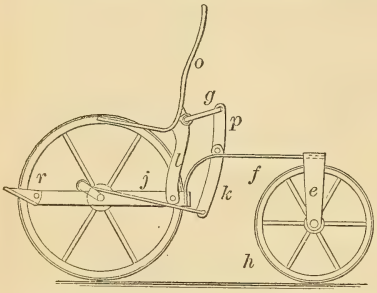

**90866**—D. W. Onderdonk—*Thill Coupling.*



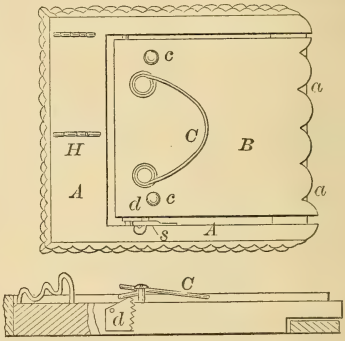

**90867**—G. Palmer—*Nut Lock.*




**90869**—J. F. Piper—*Velocipede.*

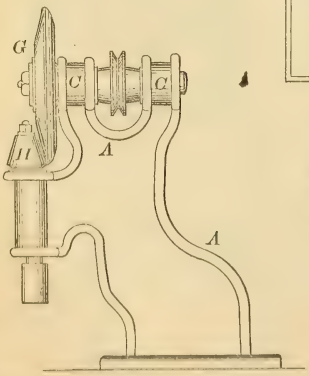



**90870**—W. S. Poulson—*Book Holder.*

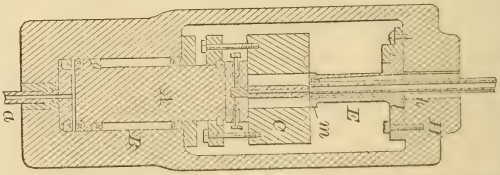


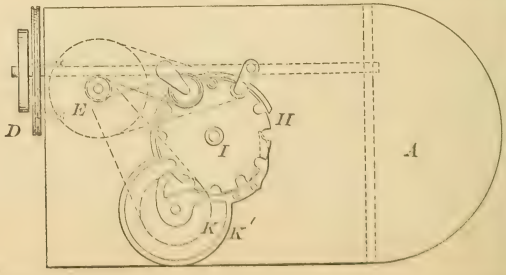

**90868**—E. Pierce—*Bomb Lance.*

**90871**—T. J. Power—*Priming Metallic Cartridges.*

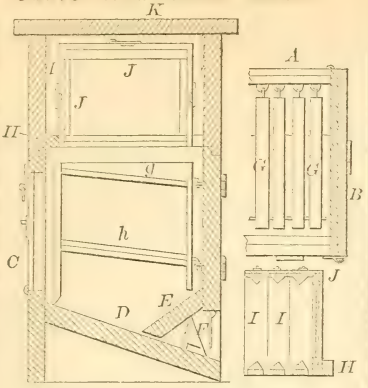



**90872**—J. Robertson—*Lead Pipe Machine.*

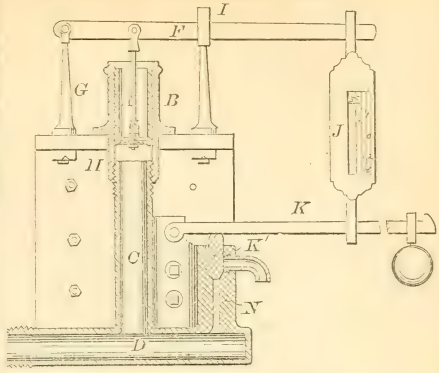


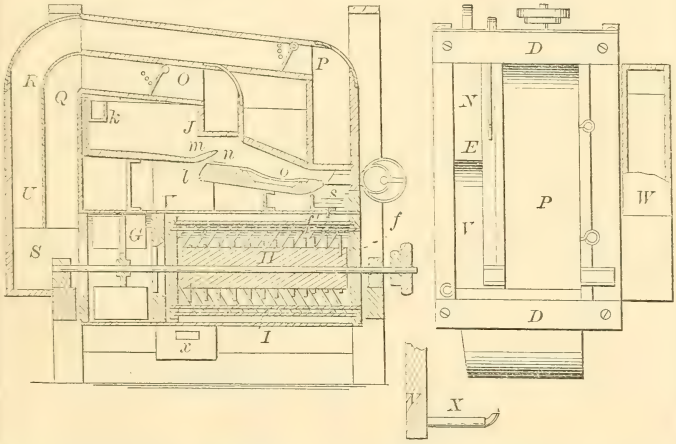
**90873**—J. M. Robnett—*Beehive.*



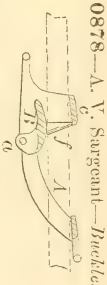
**90874**—T. Rowe—*Safety Valve.*



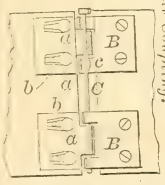
**90875**—M. R. Ruble—*Smut Machine.*



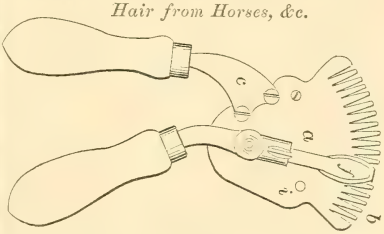
**90878**—A. V. Sargeant—*Buckle.*



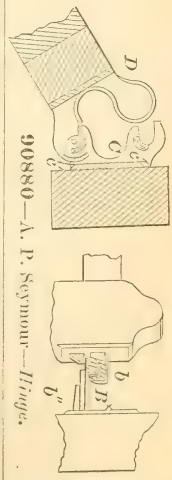
**90876**—T. Rüdiger—*Belt Coupling.*



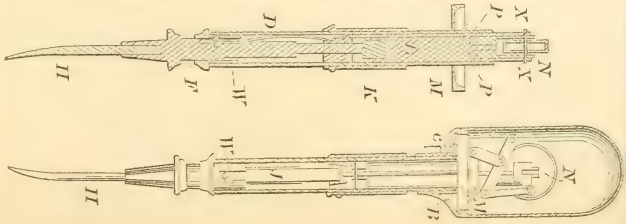
**90877**—Salom & Field—*For Clipping the Hair from Horses, &c.*



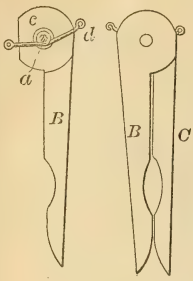
**90880**—A. P. Seymour—*Hinge.*



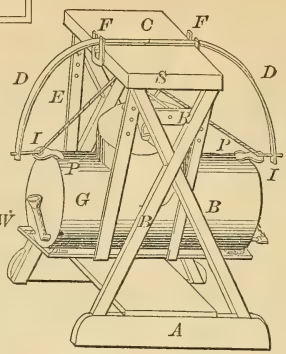
**90879**—Scranton & Parsons—*Dental Plugging Instrument.*



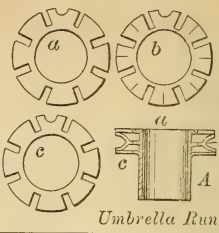
**90881**—L. T. Simon—*Clothes Pin.*




**90882**—J. Simpson—*Churn.*

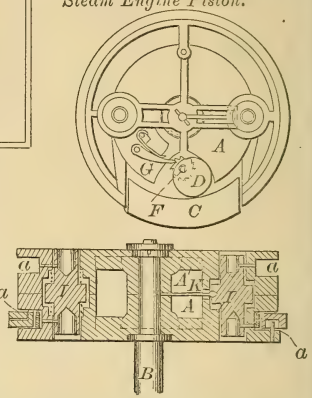



**90883**—O. M. Smith—

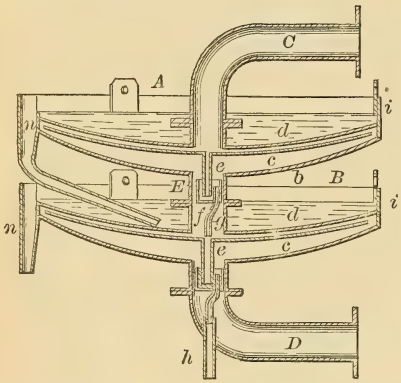



*Umbrella Runner.*

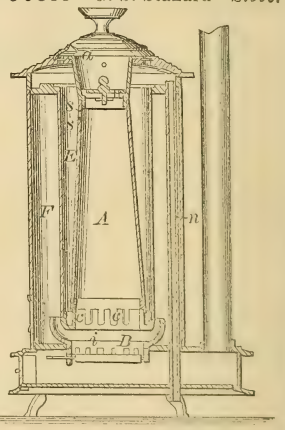
**90884**—W. G. Snook—*Steam Engine Piston.*



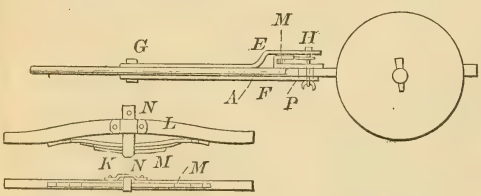

**90886**—E. G. Starck—*Alcohol Still.*



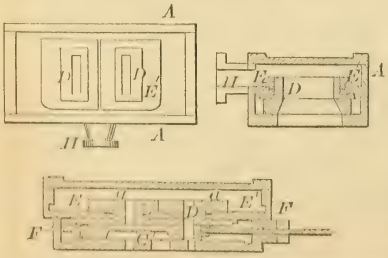

**90885**—G. S. Stanard—*Stove.*



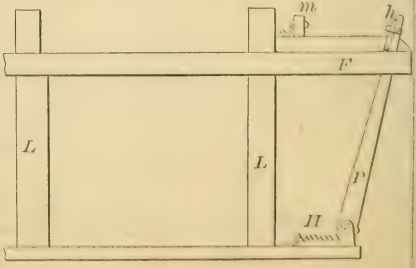

**90890**—W. Trump—*Wagon Pole Attachment.*



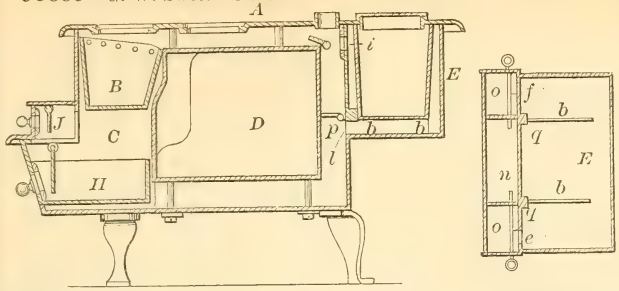

**90887**—J. D. Stewart—*Slide Valve.*



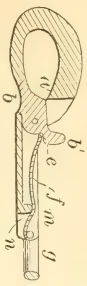

**90888**—A. Stockwell—*Loom.*



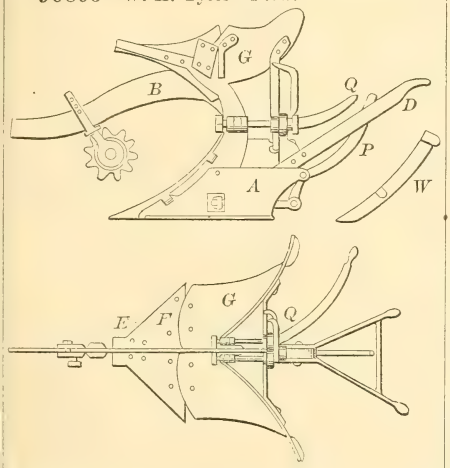
**90889**—G. W. Swett—*Stove.*



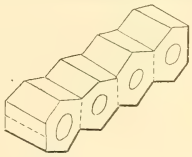

**90896**—F. Valentine—*Snap Hook.*



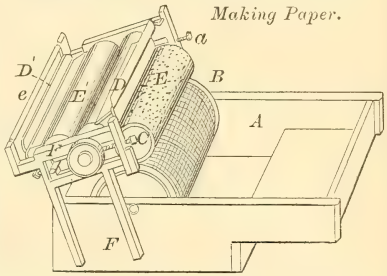

**90895**—W. H. Tyler—*Plow.*



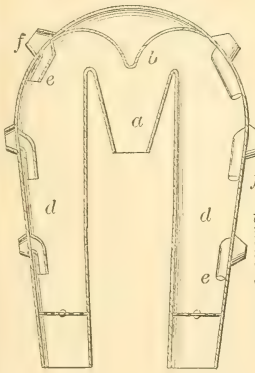

**90897**—S. Vanstone—*Nut Bar.*



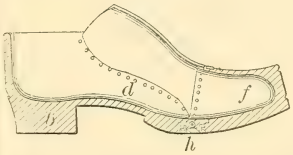
**90898**—C. B. Van Valkenburgh—*For Making Paper.*




**90899**—J. Viall—*Locomotive Spark and Smoke Conductor.*

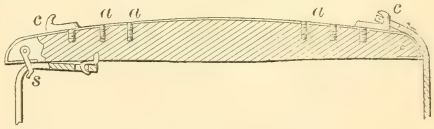



**90900**—W. A. Webster—*Wooden Shoe.*

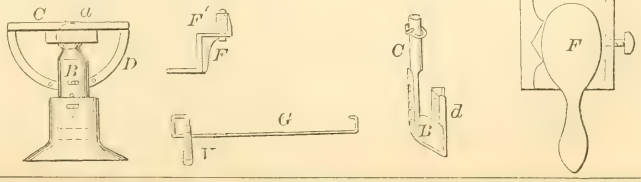



**90902**—H. F. Whidden—*Shoe Nail.*

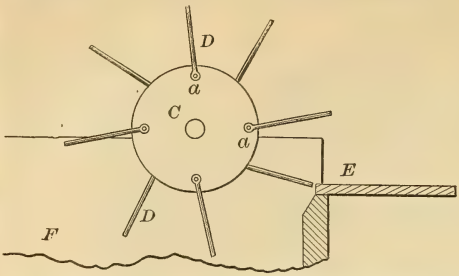
**90901**—N. Westcott—*Whiffletree.*



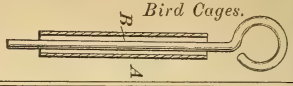

**90903**—A. M. White—*Brush Machine.*



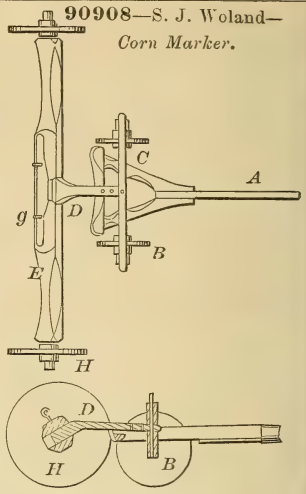
**90904**—A. S. Whittemore—*Threshing Machine.*



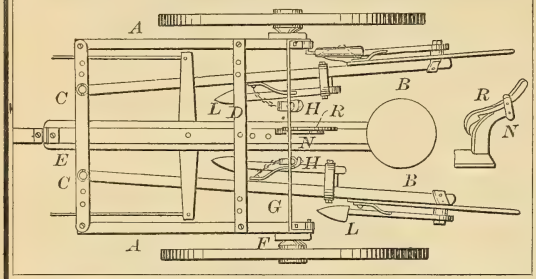

**90906**—J. H. Williams—*For Bird Cages.*



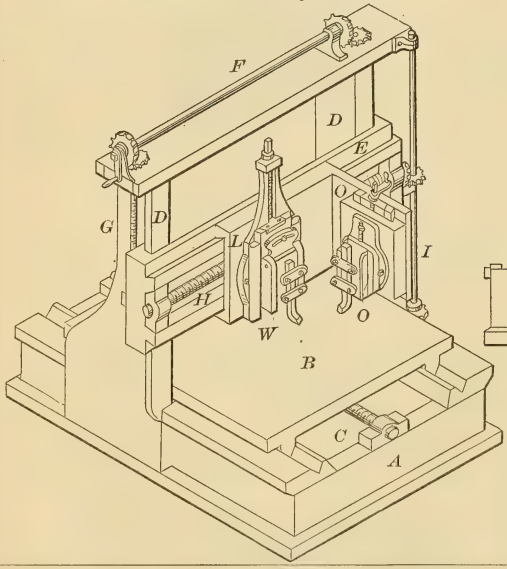

**90908**—S. J. Woland—*Corn Marker.*

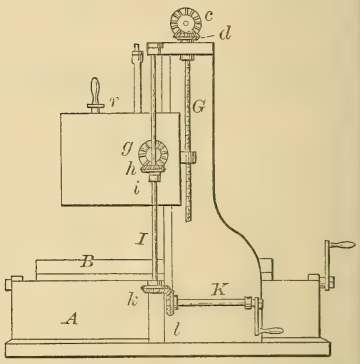



**90905**—L. H. Wilkinson—*Cultivator.*

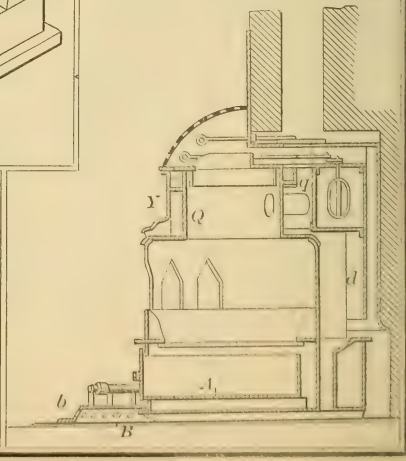



**90907**—S. Wilmarth—*Planing Machine.*

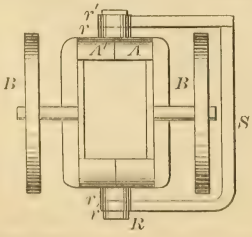


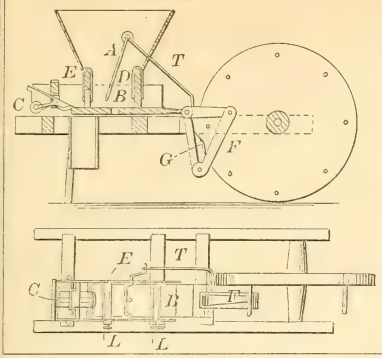

**90910**—Stuart & Bridge—*Stove.*

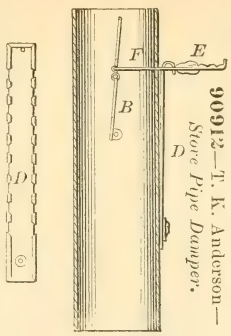



**90909**—G. W. N. Yost—*Harvester.*



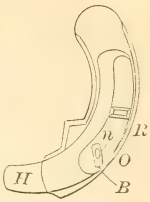
**90911**—M. Adams—*Seed Planter.*



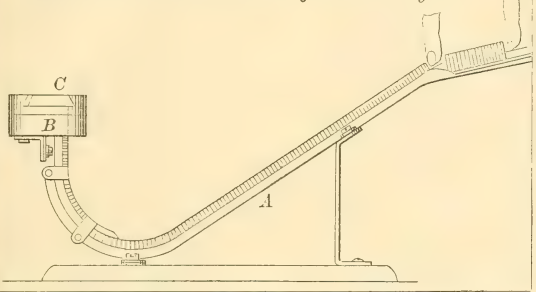




**90912**—T. K. Anderson—*Stove Pipe Damper.*

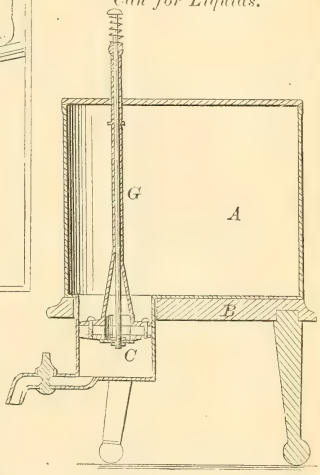
**90913**—H. G. Arnold—*Sash Lock.*



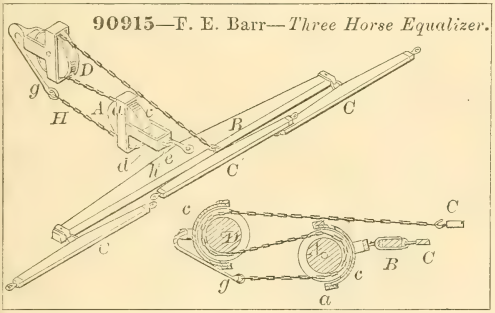

**90914**—J. H. Baird—*Punching Press Conveyor.*



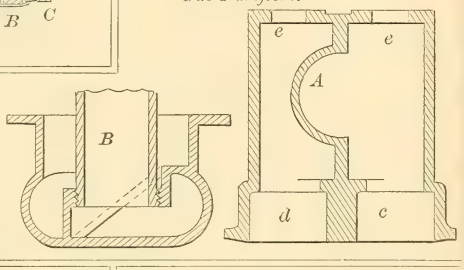

**90916**—W. Barry—*Measuring Can for Liquids.*



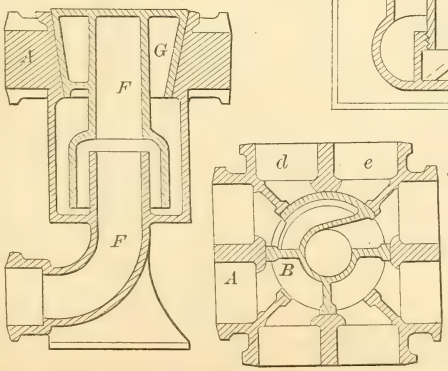

**90915**—F. E. Barr—*Three Horse Equalizer.*



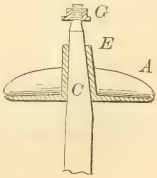

**90917**—R. Briggs—*Connections of Gas Purifiers.*



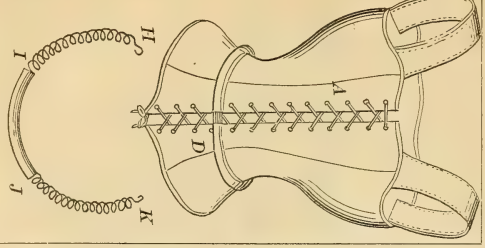

**90918**—Briggs & Muntzinger—*Centre Valve of Gas Works.*



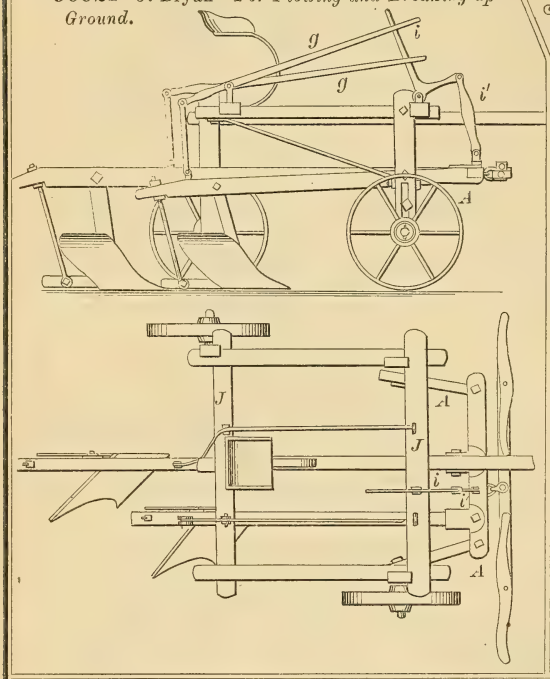

**90919**—E. Broad—*Attaching Augers to Handles.*



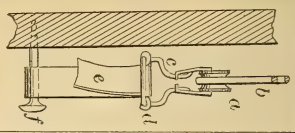
**90920**—J. W. Brooks—*Corset Skirt Supporter.*



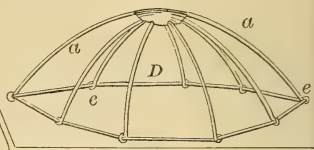

**90921**—J. Bryan—*For Plowing and Breaking up Ground.*



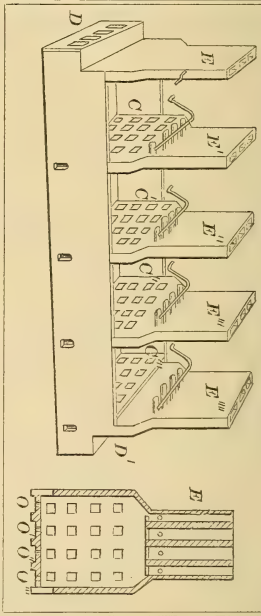

**90922**—A. Carter—*Curtain Fixture.*



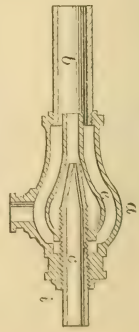

**90923**—B. Carter—*Bosom Pad.*



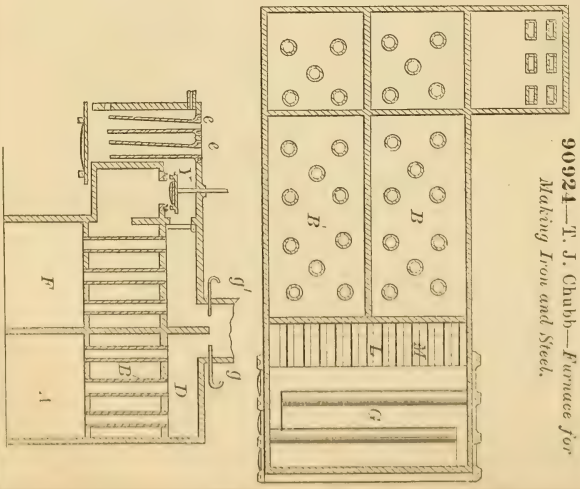

**90929**—S. H. Clapp—*Brick and Tile Kiln.*



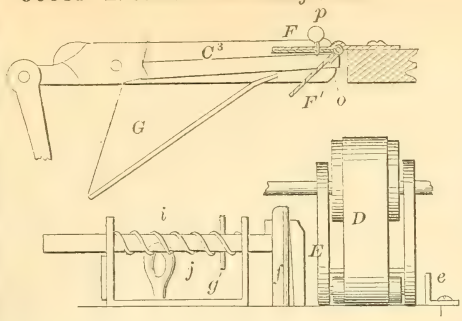

**90930**—H. Coll—*Steam Operated Water Ejector.*

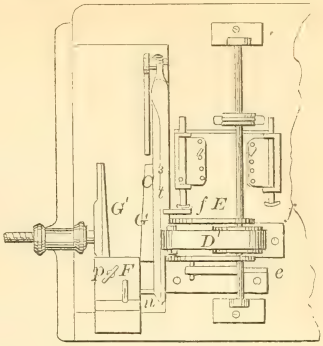



**90924**—T. J. Chubb—*Furnace for Making Iron and Steel.*

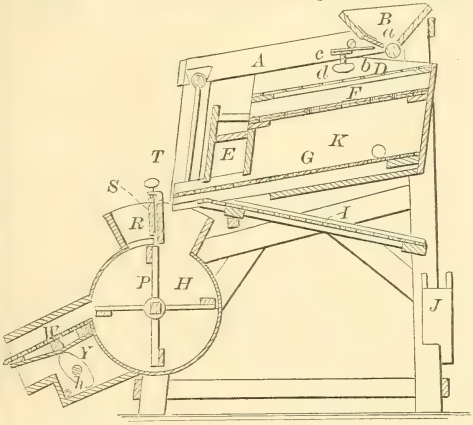


**90931**—E. Cowles—*For Cuttng Cards.*

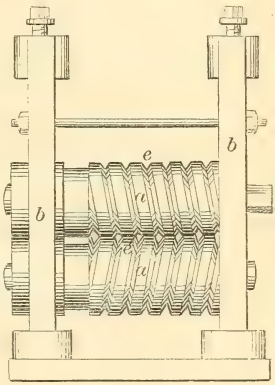



**90932**—J. J. Crowley—*Grain Separator and Mixer.*

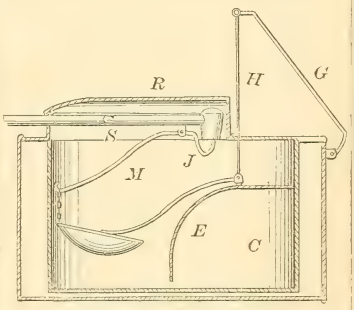



**90933**—E. M. Davis—*Rolling Apparatus.*




**90935**—Dewar, Smith & Brashear—*Pump Rod Coupling.*

**90934**—R. E. Deane—*Draught Regulator for Heating Apparatus.*




**90936**—E. P. Dickey—*Fanning Mill.*

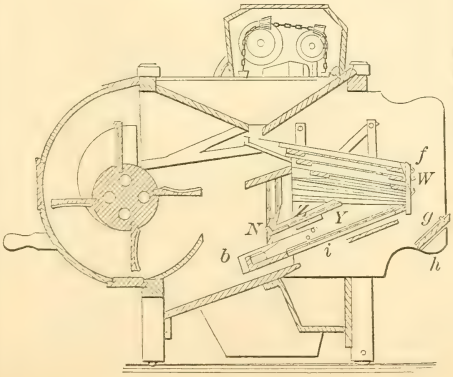
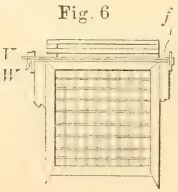
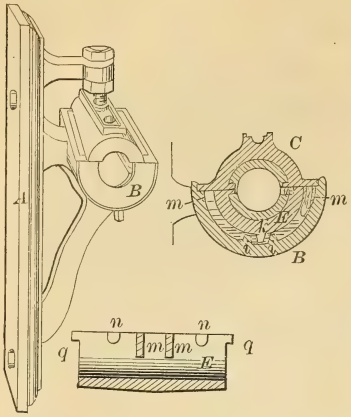


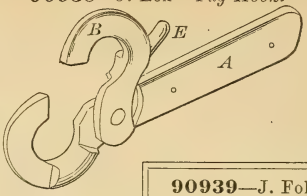

Fig. 6



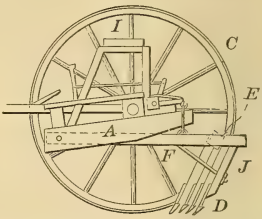
**90937**—J. Duff—*Hanger for Shafting.*



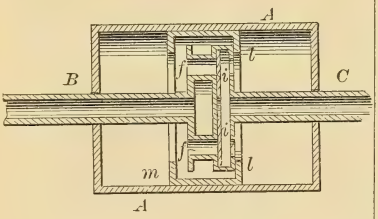

**90938**—J. Eck—*Tug Hook.*



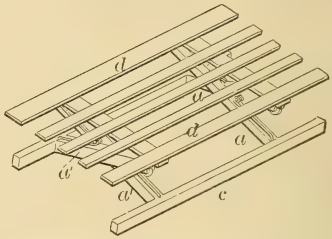

**90939**—J. Foltz—*Harrow.*



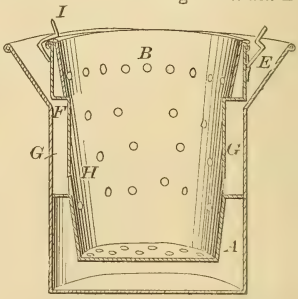

**90940**—I. N. Forrester—*Pump.*



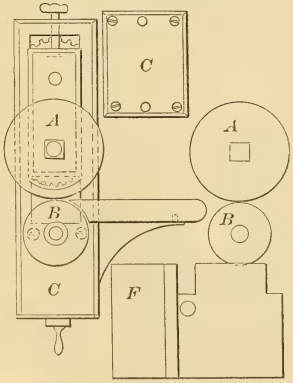

**90941**—C. T. Frost—*Bedstead, Seat, &c.*



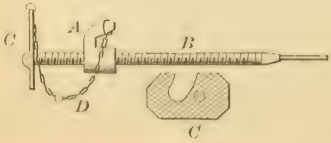

**90942**—G. M. Granger—*Wash Boiler.*



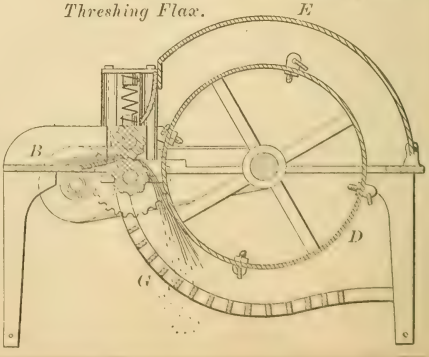

**90943**—F. L. Hagadorn—*Pinking Machine.*



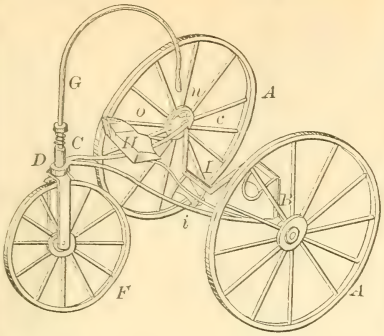

**90945**—J. E. Hills—*Key Fastener.*



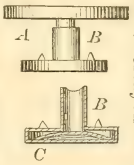

**90946**—M. Jerome—*For Scutching and Threshing Flax.*



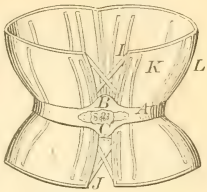
**90947**—E. A. Jones—*Velocipede.*




**90948**—J. G. Kenyon—*Stud.*



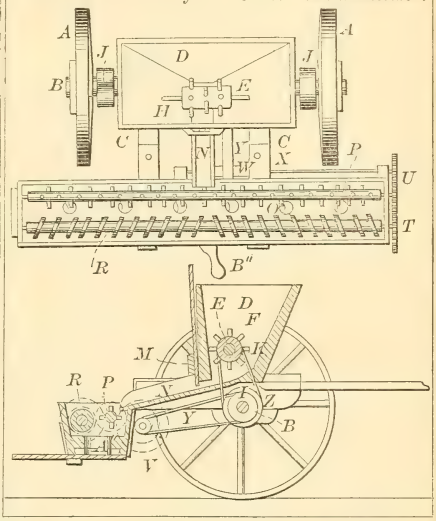

**90950**—H. E. Marchand—*Corset.*



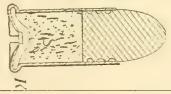

**90949**—T. T. Kinsey—*Lightning Rod.*



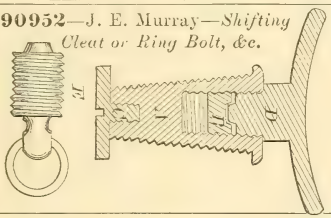

**90953**—J. J. Naylor—*Seeder and Fertilizer.*



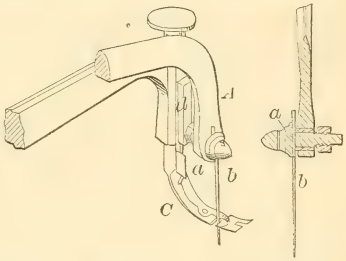

**90951**—J. V. Meigs—*Cartridge.*



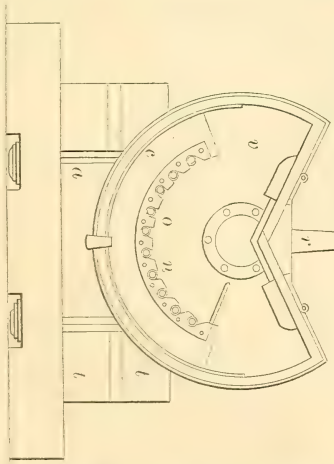
**90952**—J. E. Murray—*Shifting Cleat or Ring Bolt, &c.*



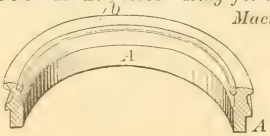

**90954**—Neale & Beck—*Sewing Machine.*



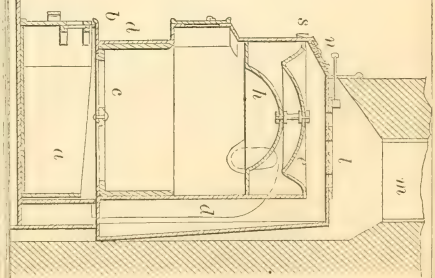

**90955**—A. F. W. Partz—*For Collecting Gold and Silver from Ores.*



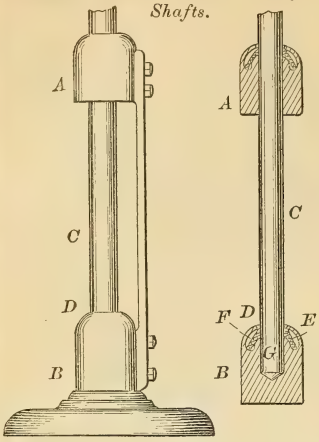
**90956**—H. L. Pierce—*Ring for Spinning Machines.*



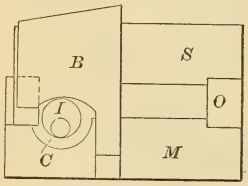

**90957**—D. S. Quimby, Jr.—*Fireplace Heater.*



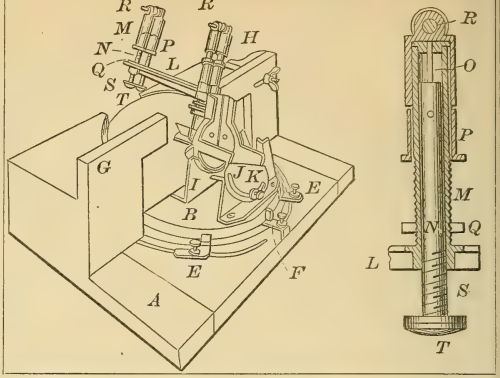
**90958**—G. Richardson—*Step for Shafts.*



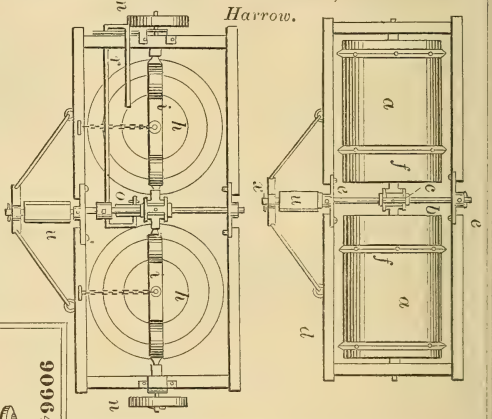

**90959**—W. Richardson—*For Turning Saw Logs.*



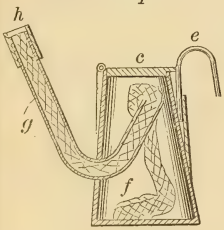

**90960**—E. Root—*Mitre Box.*



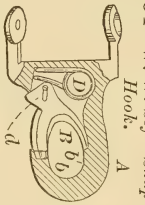

**90961**—R. Sandiford—*Land Roller, Marker and Harrow.*



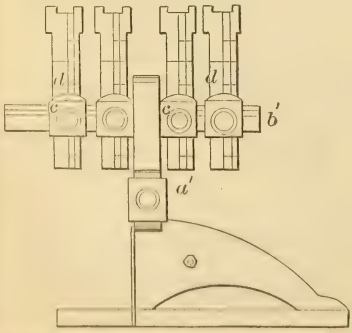
**90963**—W. Seybold—*Miners' Lamp.*



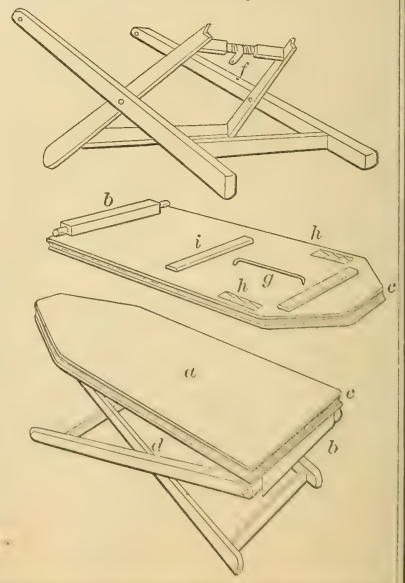

**90964**—W. W. Sly—*Snap Hook.*



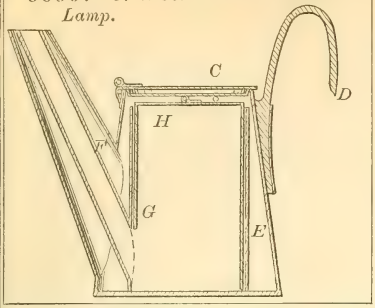

**90965**—O. Smith—*Buggy Top Bow Setter.*



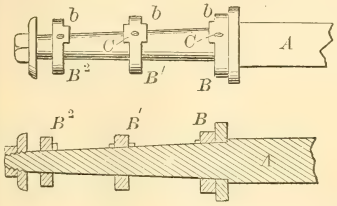

**90966**—H. Soggs—*Ironing Table.*



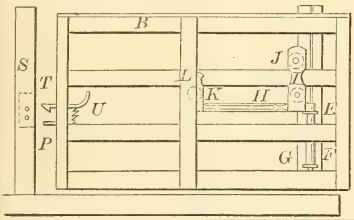
**90967**—J. S. Sommerville—*Miners' Lamp.*



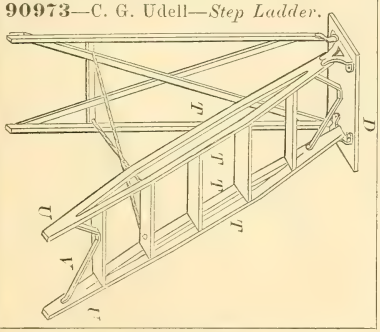

**90968**—T. Spurrier—*Carriage Axle.*



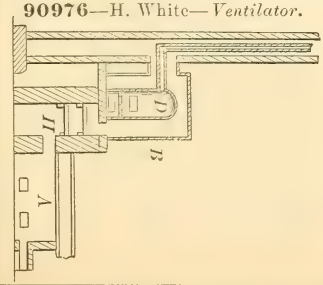

**90971**—C. W. Todd—*Gate.*



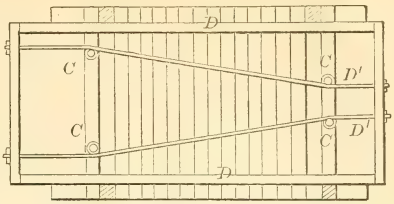

**90973**—C. G. Udell—*Step Ladder.*



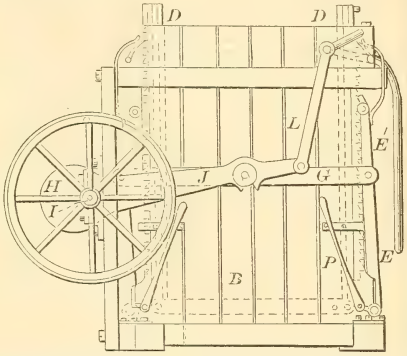

**90976**—H. White—*Ventilator.*



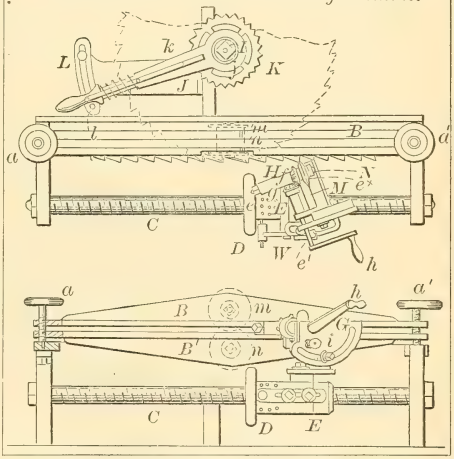

**90969**—T. H. Stevens—*Stone Sawing Machine.*



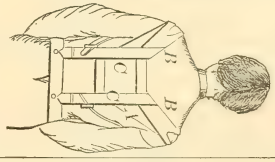

**90970**—E. Thomas—*Hay and Cotton Press.*



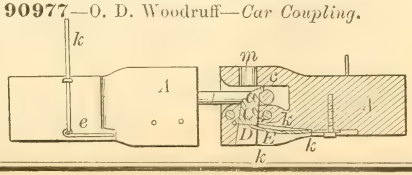

**90972**—W. Tucker—*Saw Filing Machine.*



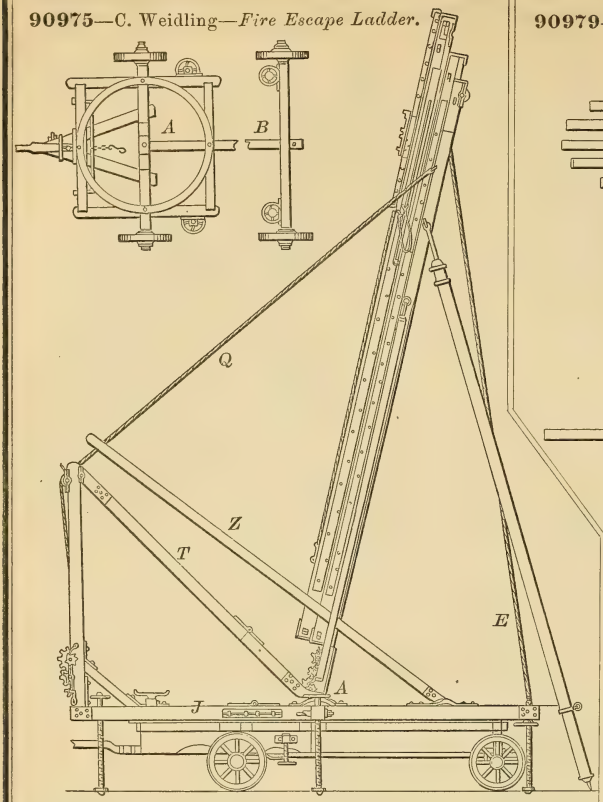

**90974**—G. W. Walker—*Shoulder Brace.*



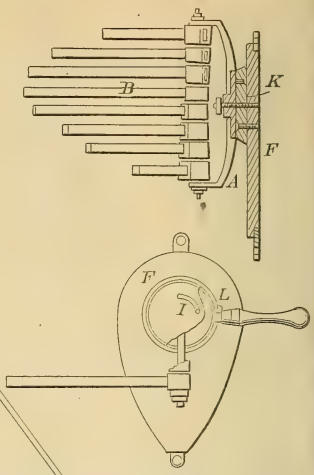

**90977**—O. D. Woodruff—*Car Coupling.*



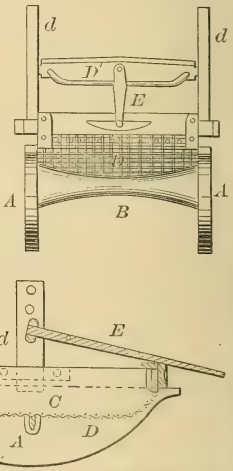
**90975**—C. Weidling—*Fire Escape Ladder.*



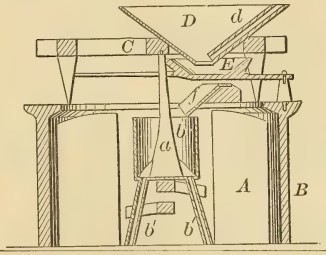

**90979**—J. Alcorn—*Clothes Rack.*



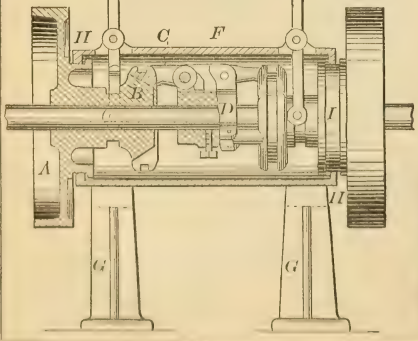

**90981**—S. Ballard, Sr.—*Grain Separator.*



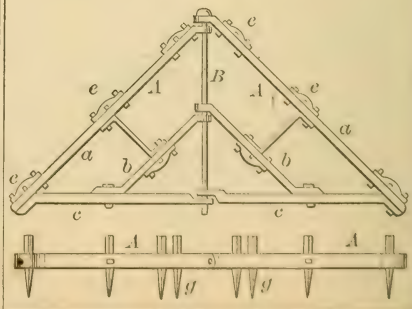

**90978**—H. Albright—*Grinding Mill.*



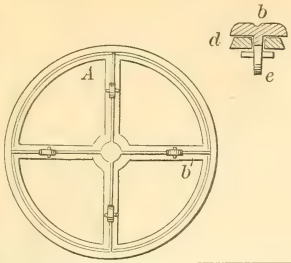

**90982**—D. Banks, Jr.—*Friction Clutch and Brake.*



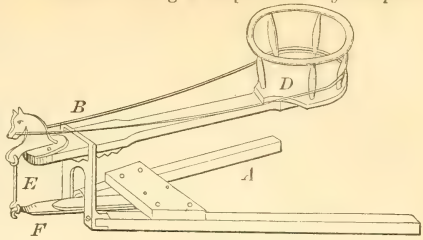

**90980**—A. W. Ball—*Harrow.*



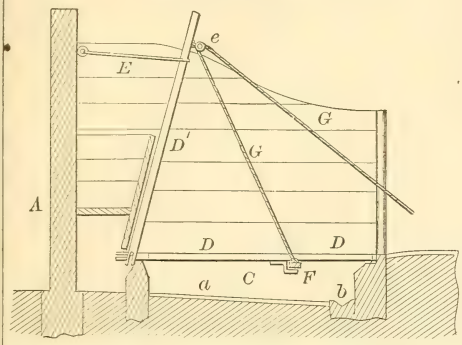
**90983**—O. B. Bartlett—*Stove Cover.*




**90985**—Berg & Stephan—*Baby Jumper.*

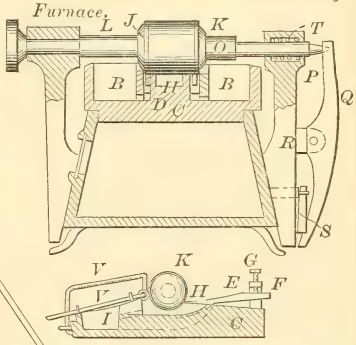



**90986**—W. M. Bleakley—*Stall Floor.*

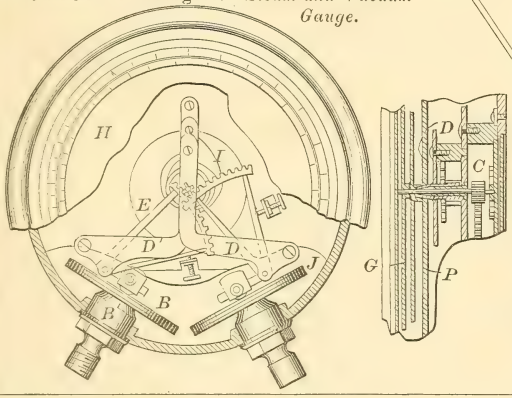



**90984**—J. H. Bassler—*Beehive.*

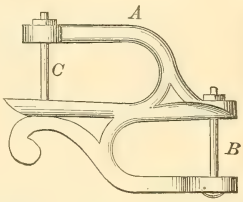
**90987**—Borden & Power—*Soldering Furnace.*



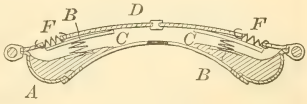

**90988**—C. Bourgeois—*Steam and Vacuum Gauge.*



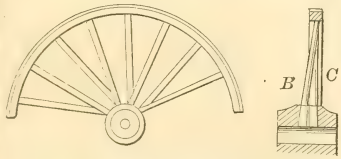

**90989**—D. J. Brady—*Whiffletree Coupling.*



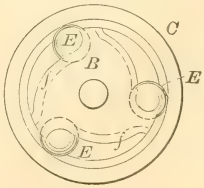

**90990**—J. R. Bragg—*Spring Saddle Tree.*



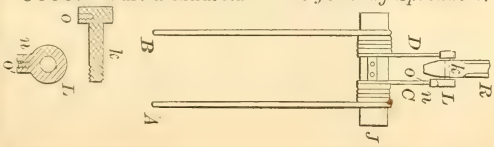

**90993**—C. F. Carman—*Carriage Wheel.*



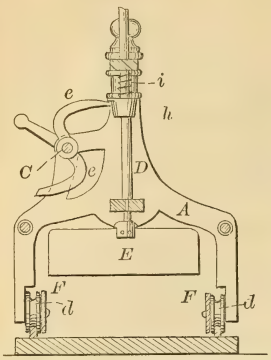

**90992**—C. W. Cardot—*Friction Clutch.*



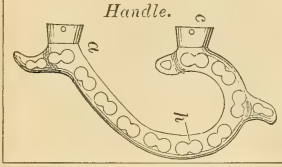

**90991**—Burt & Hildreth—*Fork for Hay Spreaders.*



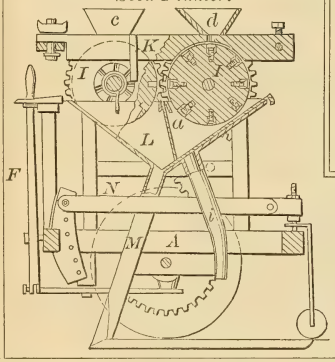
**90994**—P. Clareton—*Meat Chopper*



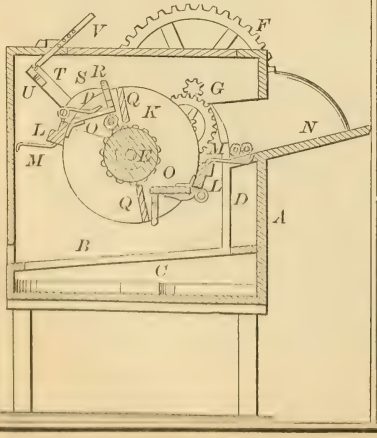

**90995**—L. C. Clark—*Tea Pot Handle.*



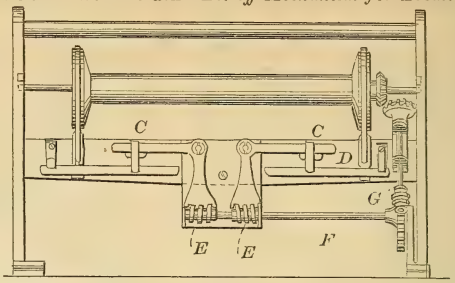

**91002**—F. E. A. Engelman—*Seed Planter.*



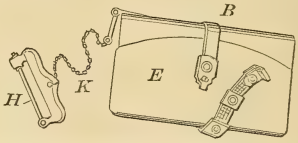

**91003**—F. Fanning—*Corn Sheller.*




**90996**—W. R. Clark—*Let-off Mechanism for Looms.*

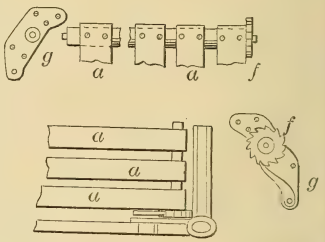



**90997**—S. C. Currie—*Pocket Book.*

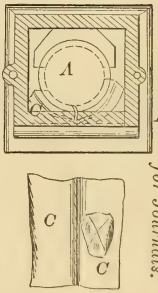



**90998**—R. D'Heureuse—*Cord Holder for Picture Frames, &c.*

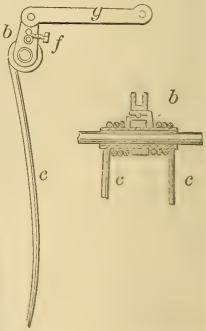
**90999**—S. Dunlap—*Bed Bottom.*




**91000**—P. S. Devlan—*Lubricating Cushion for Journals.*

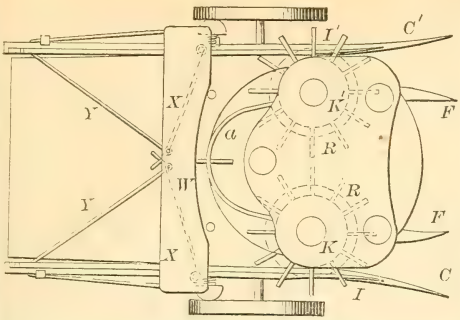



**91001**—W. H. Elliot—*Hay Spreader.*

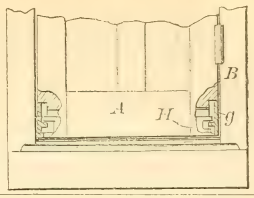



**91004**—E. A. Fisher—*Bay Holder.*

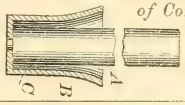
**91005**—A. Ford—*Corn Harvester.*



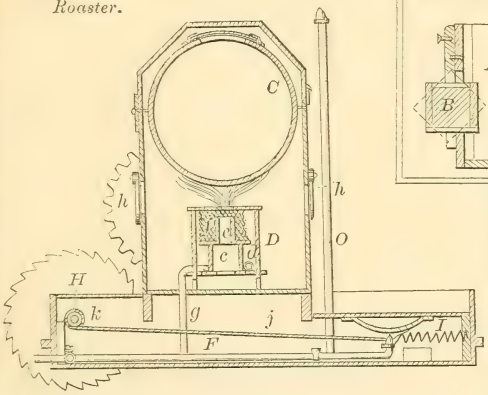

**91006**—E. P. Ford—*Weather Strip.*



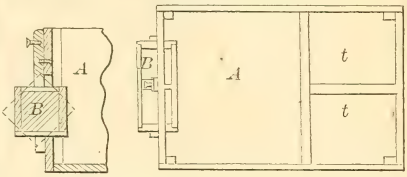

**91008**—S. Fulton—*Manufacture of Cores.*



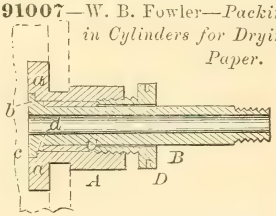

**91009**—D. A. T. Gale—*Nut and Coffee Roaster.*



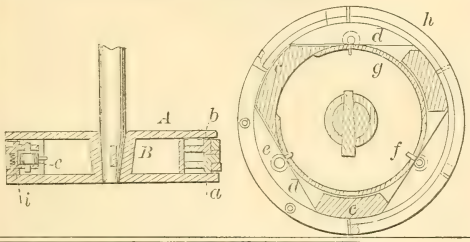

**91013**—J. Hawse—*Feed Box.*



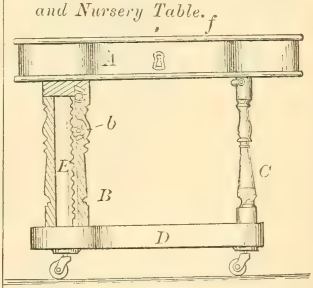

**91007**—W. B. Fowler—*Packing in Cylinders for Drying Paper.*



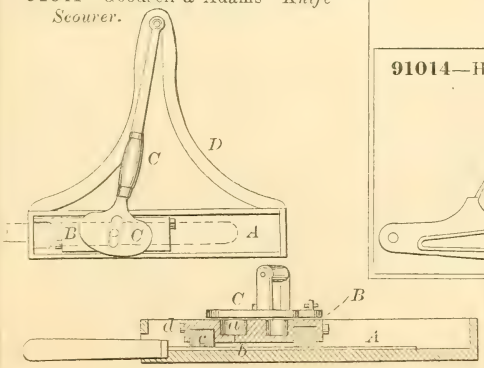

**91010**—J. Gates—*Piston Packing.*



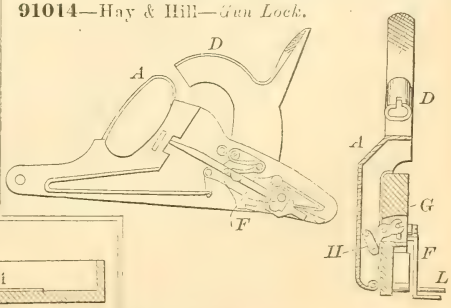

**91012**—H. Havekorst—*Toilet and Nursery Table.*



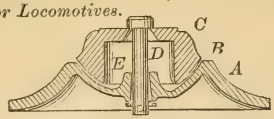

**91011**—Goodsell & Adams—*Knife Scourer.*



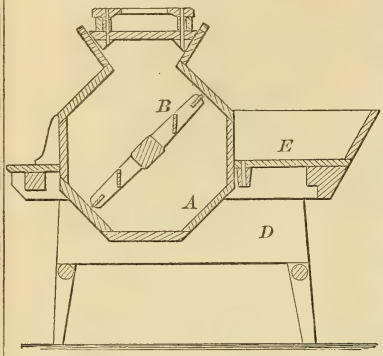

**91014**—Hay & Hill—*Gun Lock.*



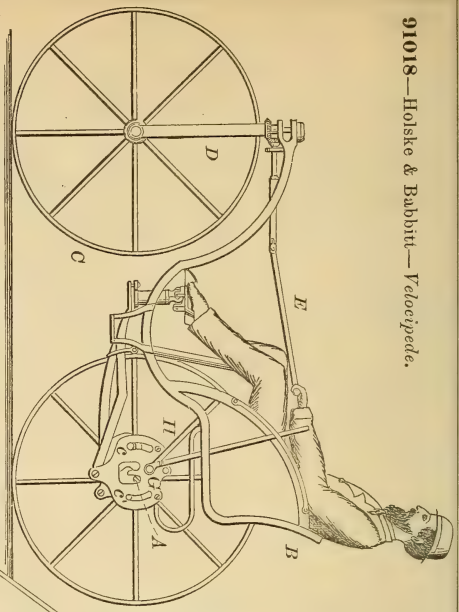
**91015**—B. W. Healey—*Centre Bearing for Locomotives.*



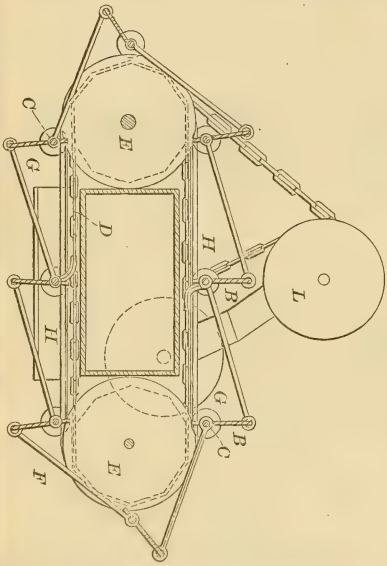

**91016**—E. Hitchcock—*Churn.*



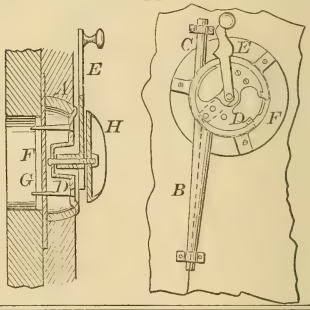

**91018**—Holske & Babbitt—*Velocipede.*



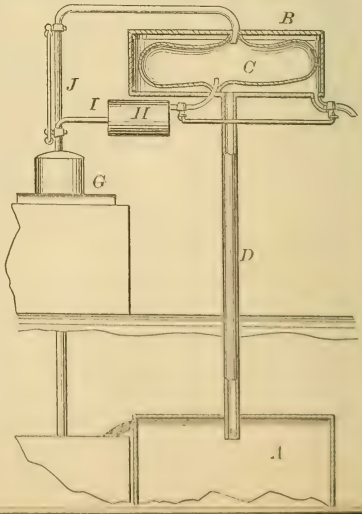

**91017**—J. B. Holmes—*Water Wheel.*




**91019**—B. W. Hopper—*Bell Lever Box.*

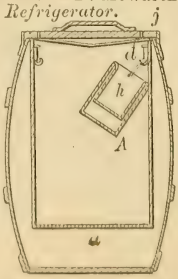



**91023**—D. Jones—*Water Elevator.*

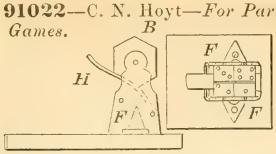



**91020**—J. Horton—*Shade for Burners.*

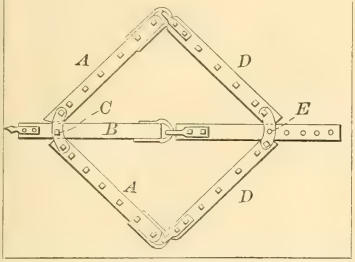
**91021**—D. Howarth—*Refrigerator.*



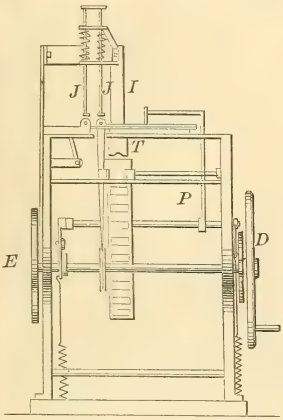
**91022**—C. N. Hoyt—*For Parlor Games.*

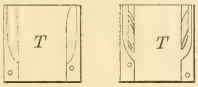


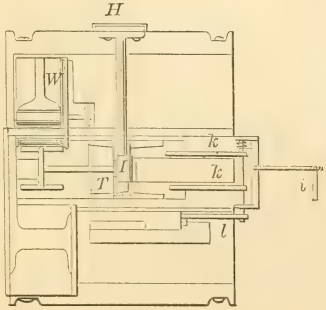

**91024**—S. G. Jones—*Harrow.*



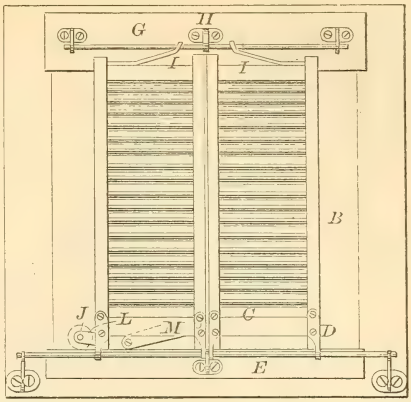

**91025**—Keating & Waymouth—*For Making Paper Boxes.*



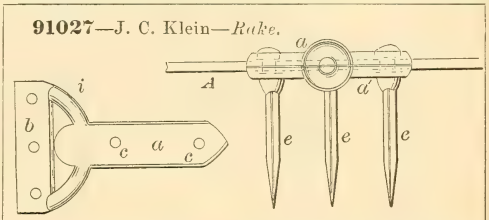



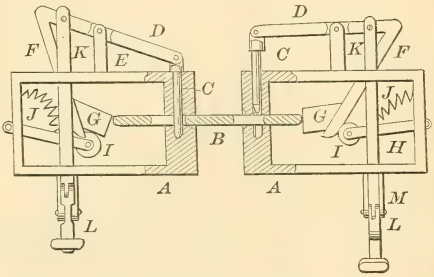

**91026**—D. Kidder—*Shutter Worker.*



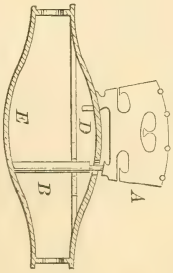

**91027**—J. C. Klein—*Rake.*



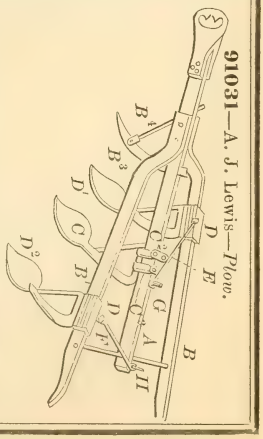

**91028**—C. Layton—*Car Coupling.*



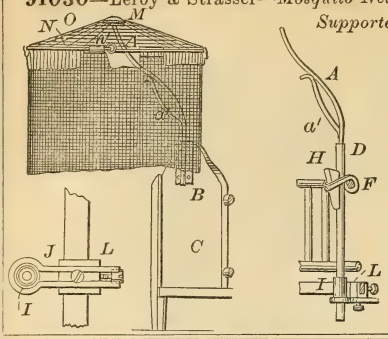

**91029**—J. Lenhard—*Violin.*



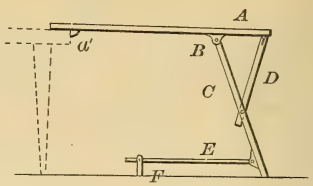

**91031**—A. J. Lewis—*Plow.*



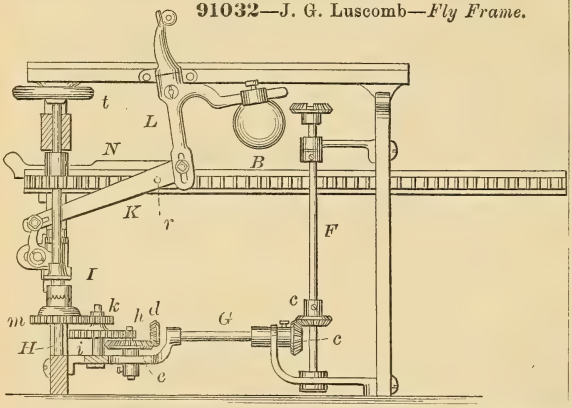
**91030**—Leroy & Strasser—*Mosquito Net Supporter.*



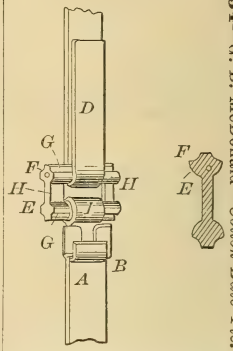

**91033**—A. Matson—*Ironing Board.*



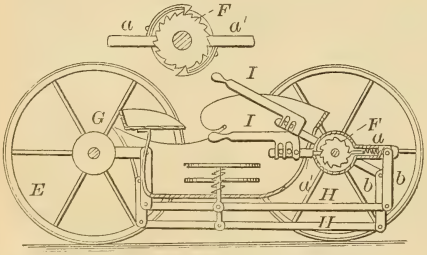

**91032**—J. G. Luscomb—*Fly Frame.*



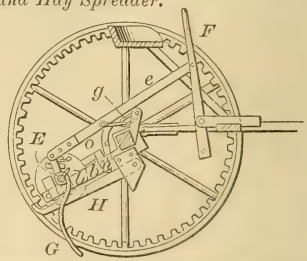

**91034**—G. B. McDonald—*Cotton Bale Tie.*



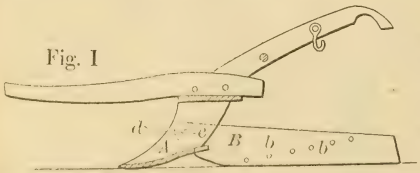

**91035**—J. W. McMillian—*Velocipede.*

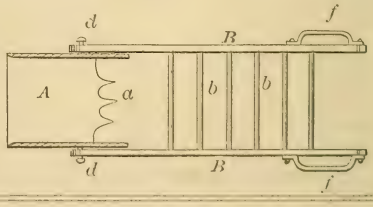



**91037**—F. E. Nearing—*Horse Rake and Hay Spreader.*

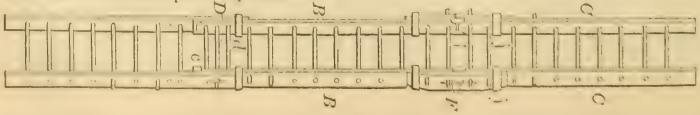



**91036**—F. A. Morley—*Potato Digger.*

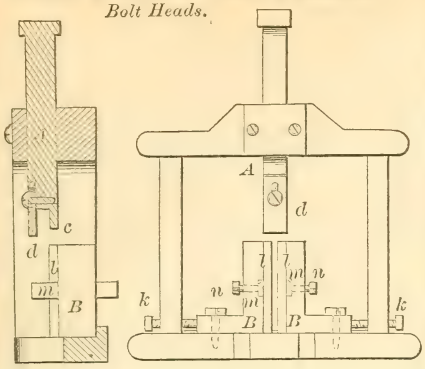


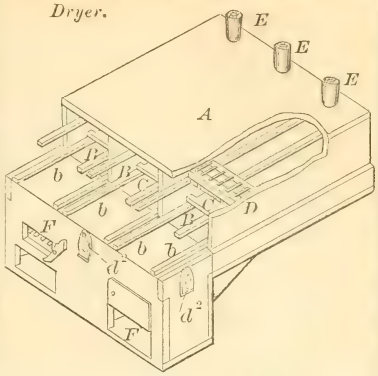

**91039**—W. G. Philips—*Step Ladder.*



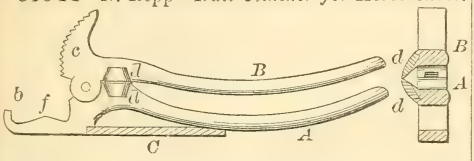
**91040**—A. P. Plant—*Tool for Trimming Bolt Heads.*



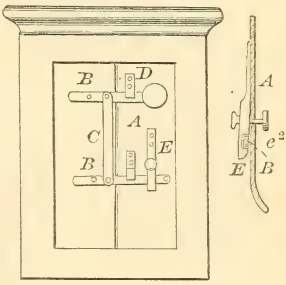
**91041**—S. D. Rader—*Brick and Sand Dryer.*



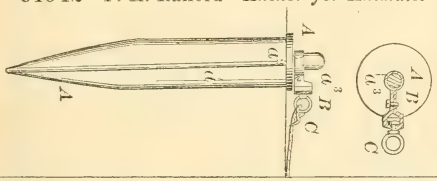
**91044**—N. Repp—*Nail Clincher for Horse Shoes.*



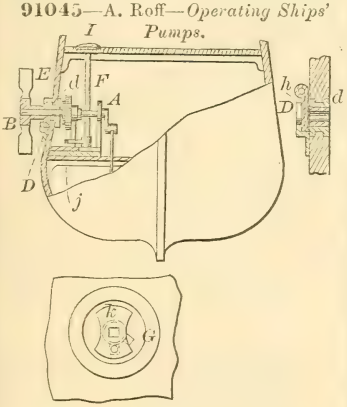
**91043**—T. & W. L. Reese—*Fastening for Fireproof Shutters.*



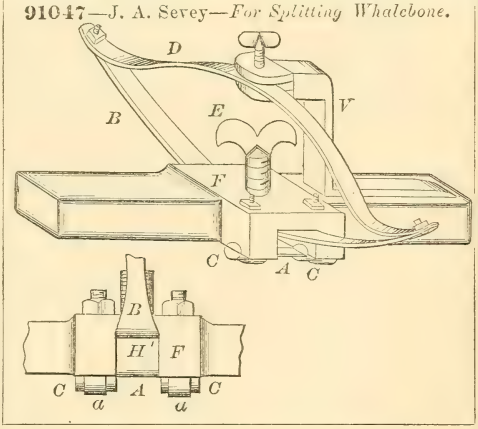
**91042**—P. H. Raiford—*Anchor for Animals.*



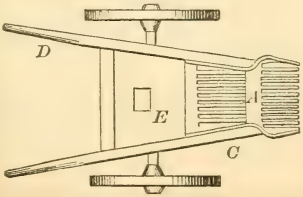
**91045**—A. Roff—*Operating Ships' Pumps.*



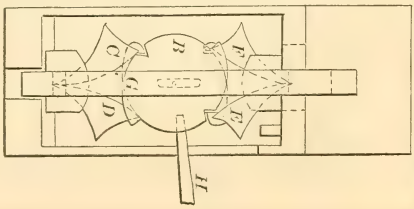
**91047**—J. A. Sevey—*For Splitting Whalebone.*



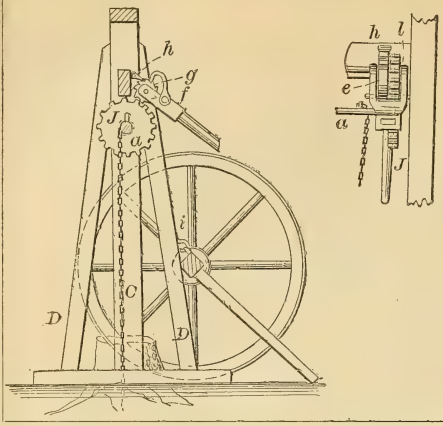
**91046**—J. Schermerhorn—*Vegetable Gatherer.*



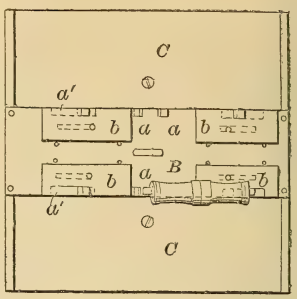
**91048**—H. Shutts—*Mechanical Movement.*



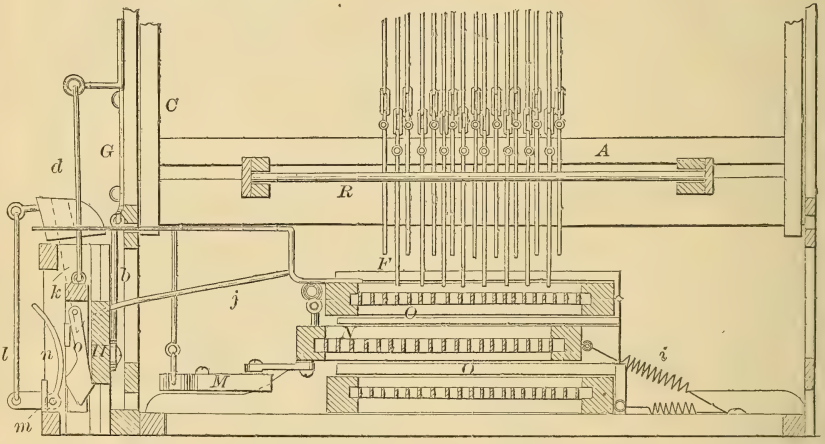
**91049**—W. Smith—*Stump Extractor.*



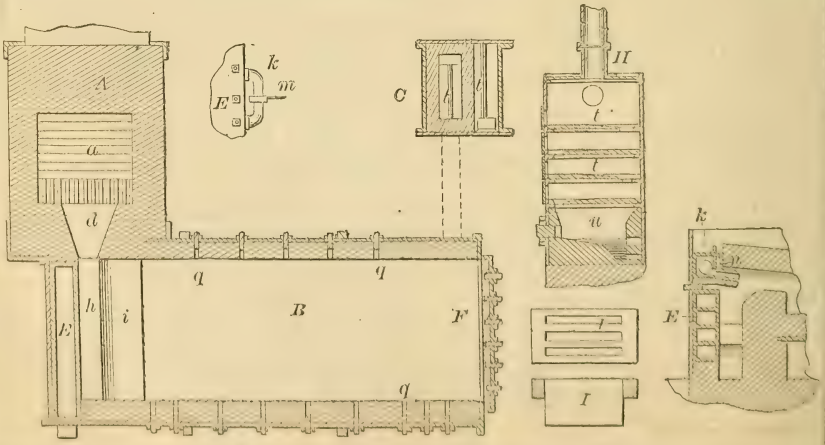

**91053**—P. W. Thomas—*Sad Iron Heater.*



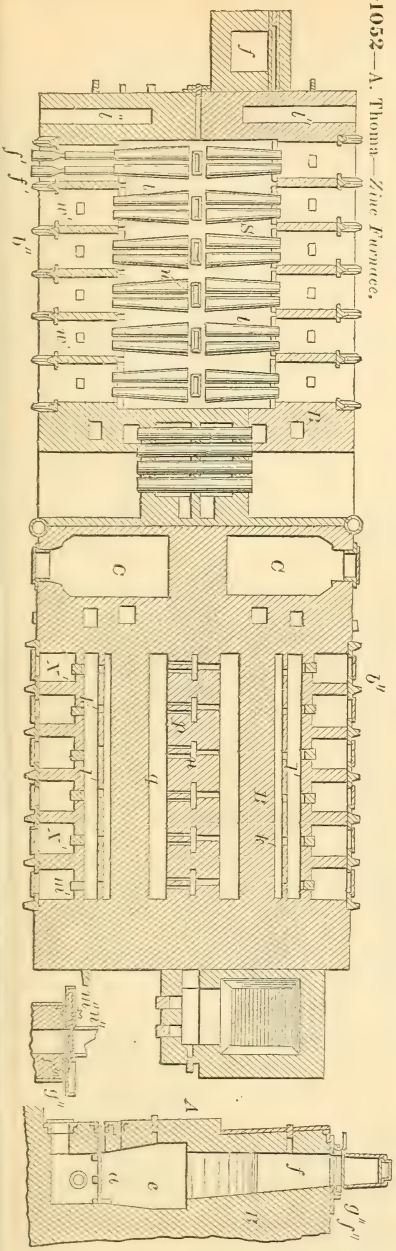

**91050**—J. J. Switzer—*Loom.*



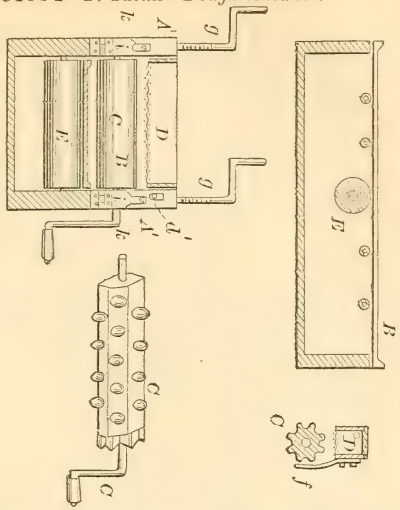

**91051**—A. Thoma—*For Extracting Zinc from its Ores.*



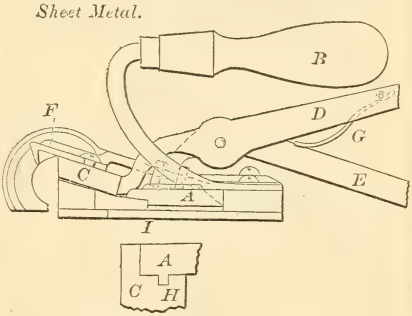
**91052**—A. Thoma—*Zinc Furnace.*



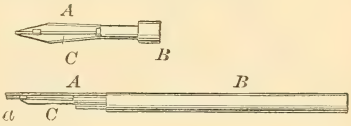
**91054**—F. Thrall—*Dough Kneader.*



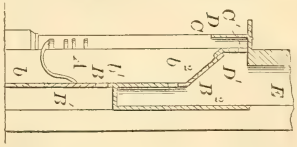
**91055**—A. Trolan—*For Double Seaming Sheet Metal.*



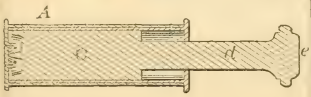
**91056**—J. W. Truman—*Pen.*



**91059**—T. C. Aldridge—*Fireplace.*

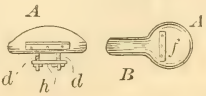


**91058**—F. H. Aiken—*Cartridge Case Cleaner.*

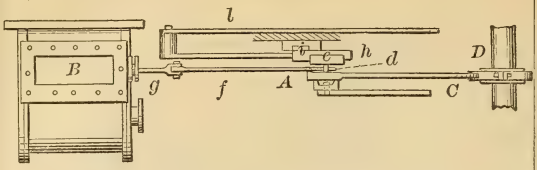


**91057**—S. W. Adwen—*Baling Short Cut Hay and Straw.*

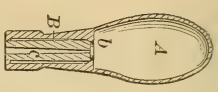
**91062**—G. B. Ambler—*Velocipede Saddle.*



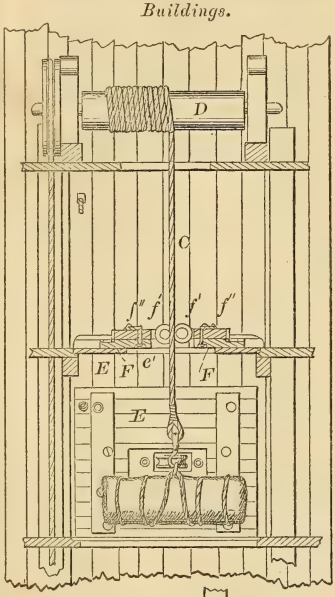
**91060**—A. M. Allen—*Valve Gear.*

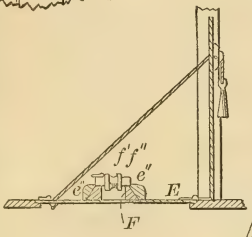



**91064**—E. J. Amor—*Tool Handle.*

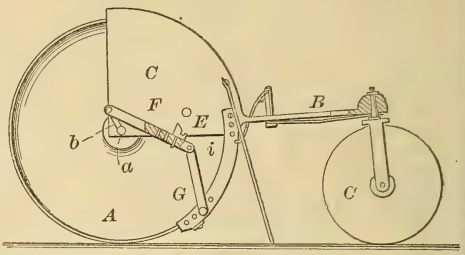



**91063**—I. Amies—*Hatchway for Buildings.*

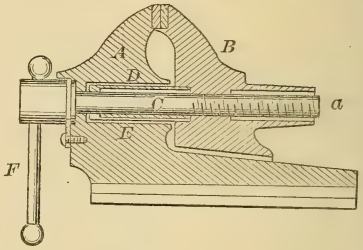


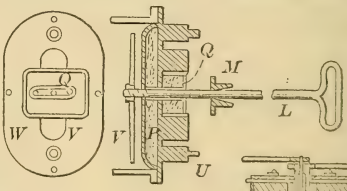

**91061**—A. M. Allen—*Velocipede.*

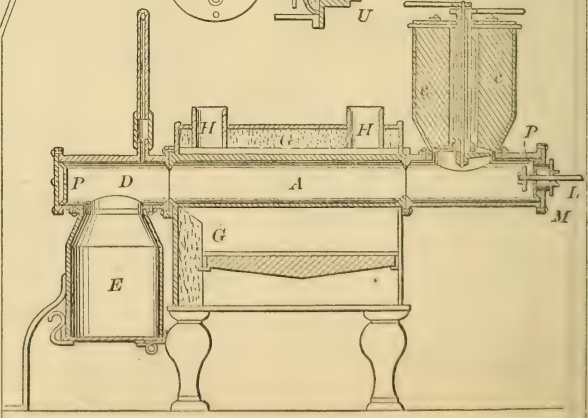



**91065**—A. G. Andrén—*Vise.*

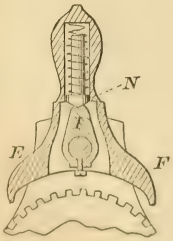



**91066**—Babbett & Binney—*For Making Coal Gas.*

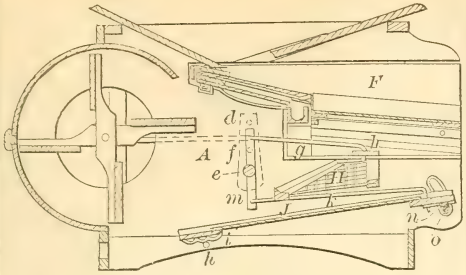


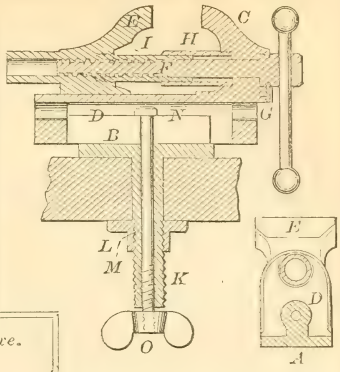

**91072**—A. B. Bean—*Ratchet Feed.*



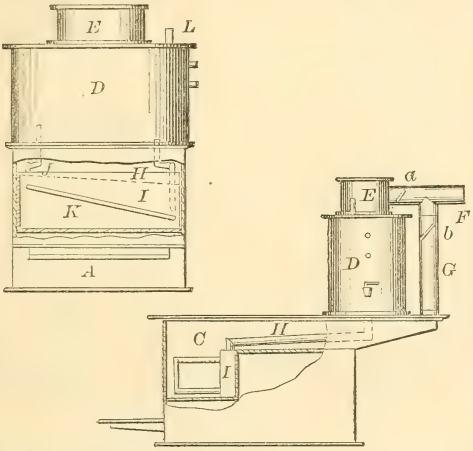
**91067**—C. F. Babcock—*Grain Separator.*



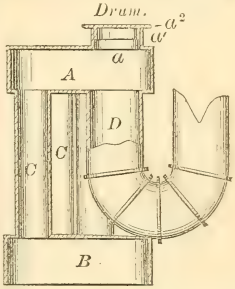

**91068**—Q. S. Backus—*Vise.*



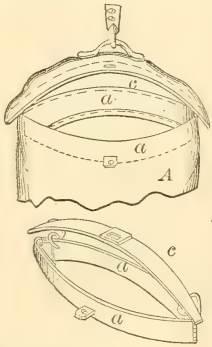

**91069**—L. F. Bancroft—*Steam Generator and Stove.*



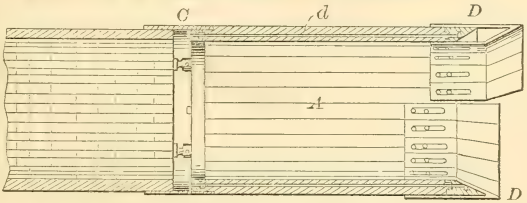

**91073**—H. E. Blemker—*Stove Drum.*



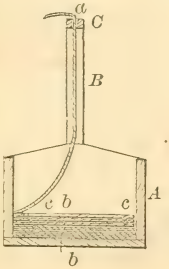

**91075**—Borst & Wonsey—*Mail Bag.*



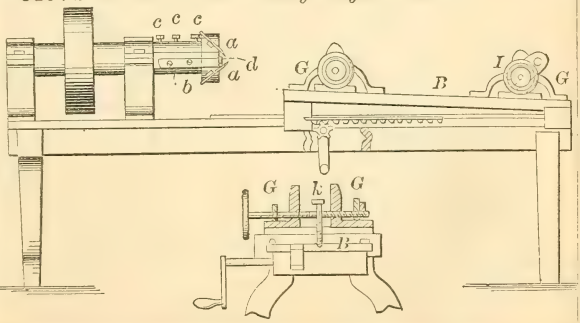

**91071**—A. E. Beach—*Shield for Tunneling.*



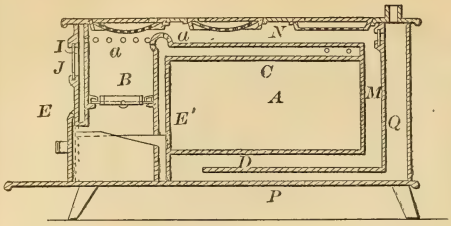

**91077**—T. W. Bracher—*For Cutting Hat Tips*



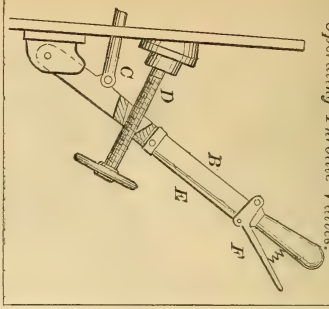

**91074**—A. Booth—*For Turning Wagon Axles.*



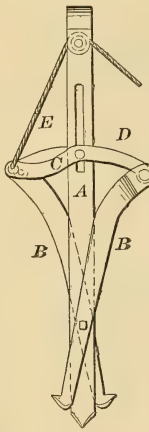
**91076**—G. S. Bosworth—*Stove.*



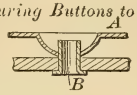

**91079**—H. L. Brevoort—*For Operating Throttle Valves.*



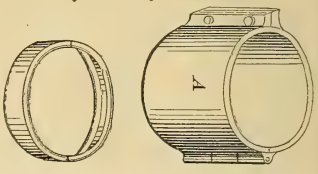

**91078**—J. Bradley—*Horse Hay Fork.*



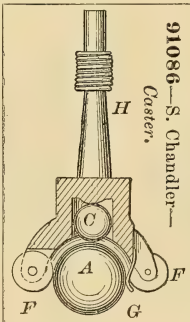

**91083**—G. J. Capewell—*Securing Buttons to Fabrics.*



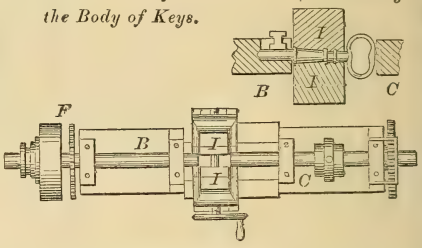

**91081**—G. Burch—*For the Manufacture of Bracelets.*



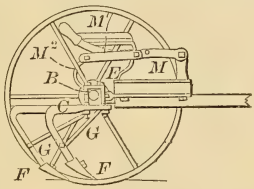

**91086**—S. Chandler—*Caster.*



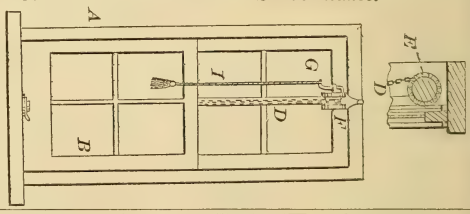

**91082**—Caffrey & Nettleton—*For Milling the Body of Keys.*



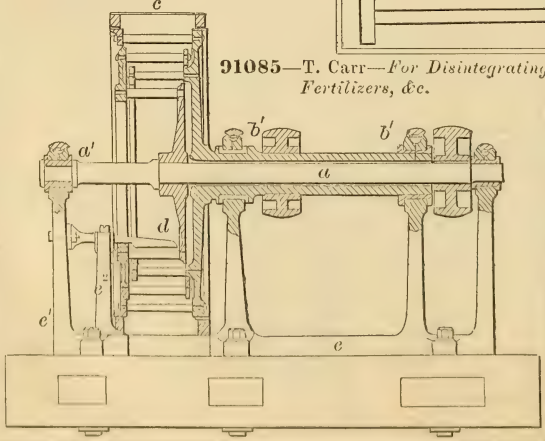

**91084**—D. F. Carr—*Cultivator.*



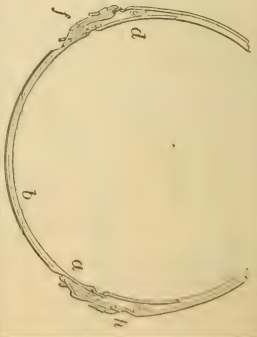

**91088**—P. Christiansen—*Sash Balance.*



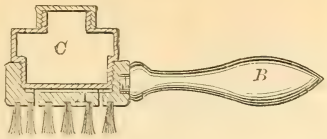

**91085**—T. Carr—*For Disintegrating Fertilizers, &c.*



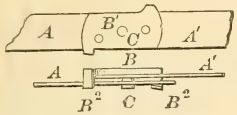

**91087**—S. G. Cheever—*Harness.*



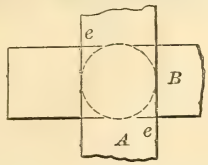
**91089**—W. B. Coates—*Hair Dyeing Brush.*



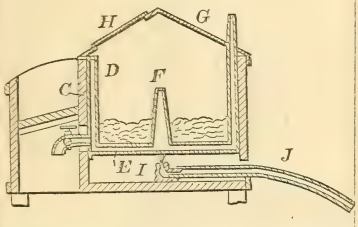

**91091**—J. Crookes—*Cotton Bale Tie.*



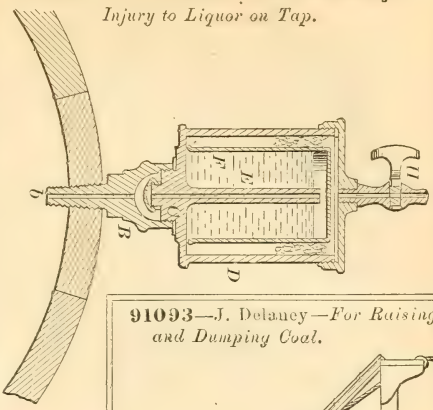

**91096**—H. A. Devendorf—*Paper Box.*



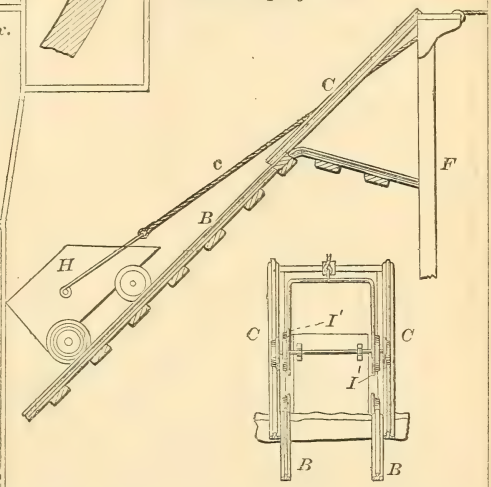

**91098**—D. Dill—*Peanut Oven.*



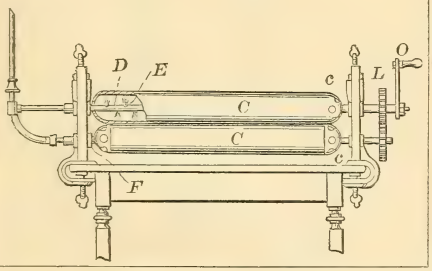

**91092**—J. G. Cullmann—*For Preventing Injury to Liquor on Tap.*



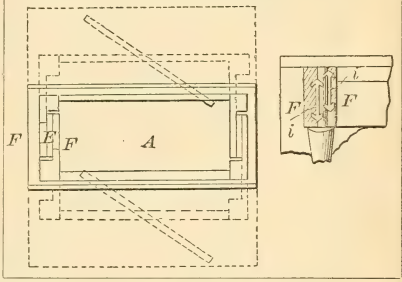

**91093**—J. Delaney—*For Raising and Dumping Coal.*



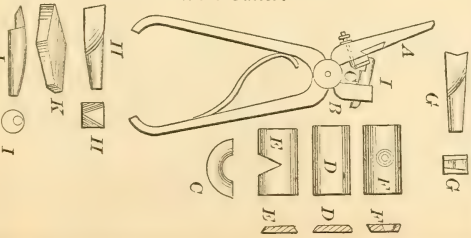

**91095**—F. A. Desloge—*Clothes Mangle.*




**91099**—J. Dourson—*Extension Table.*

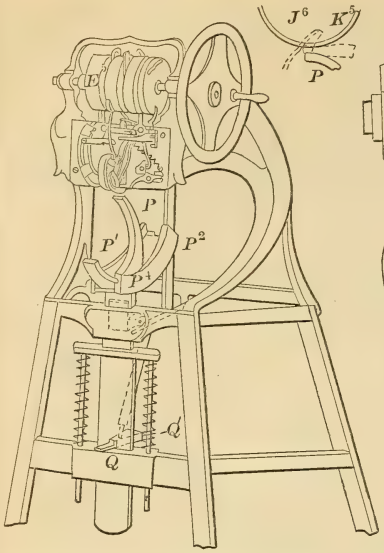


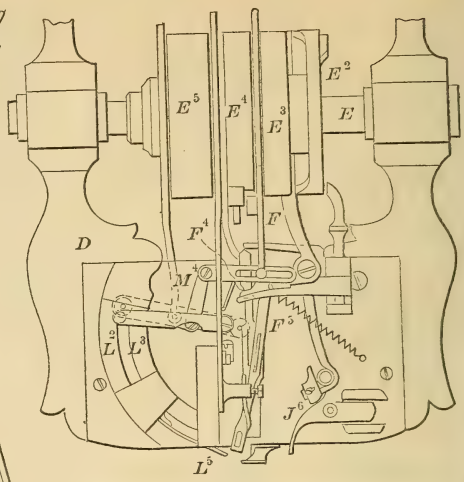

**91097**—J. L. Devol—*Saw Set, Gummer, Punch and Wire Cutter.*



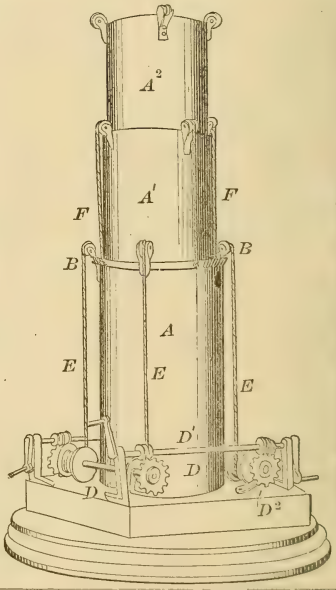

**91100**—N. A. Downer—*For Reducing the Size of Plaster Moulds.*

**91101**—W. Duchemin—*Sewing Machine.*

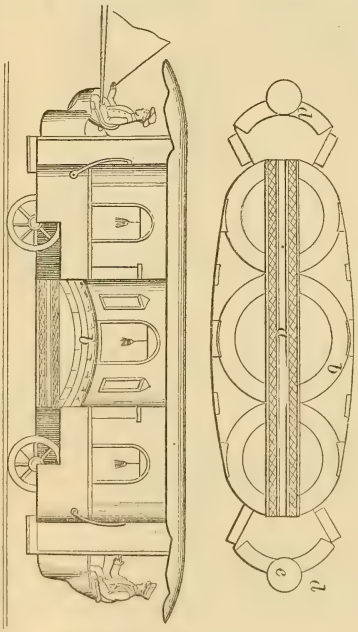


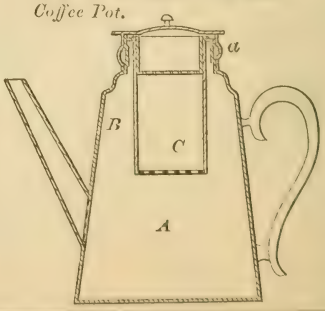

**91103**—W. W. Dungan—*Steam Generator Smoke Stack.*



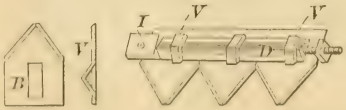

**91105**—Z. Eastman—*Street Car.*



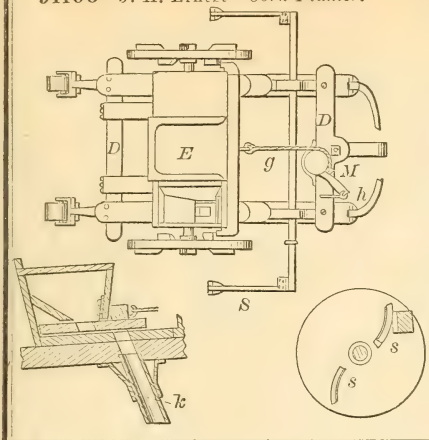
**91104**—J. E. Earle—*Tea and Coffee Pot.*



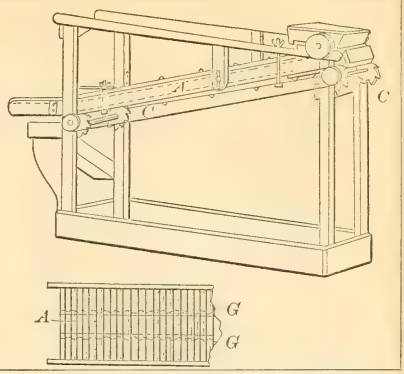

**91102**—G. L. Du Lancy—*Harvester Cutter.*



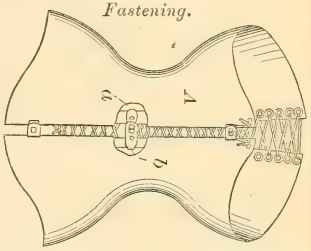
**91106**—J. H. Ernest—*Corn Planter.*



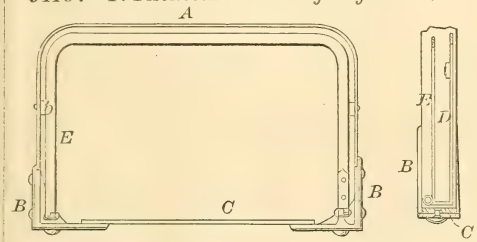

**91110**—W. D. Freeman—*For Cleaning Oats.*



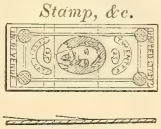

**91112**—M. E. Frentz—*Corset Fastening.*



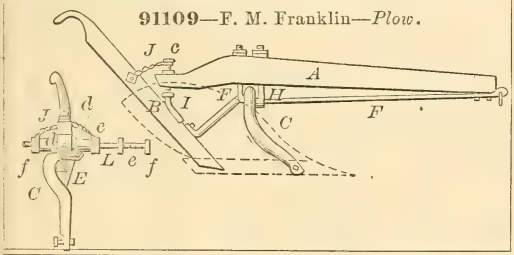

**91107**—F. Fischbeck—*Traveling Bag Frame.*



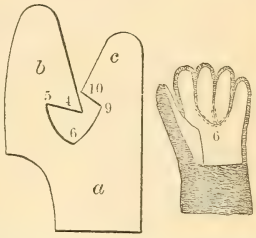

**91108**—A. C. Fletcher—*Postage Stamp, &c.*



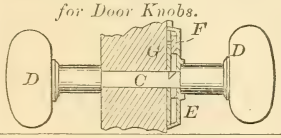
**91109**—F. M. Franklin—*Plow.*



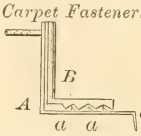

**91113**—S. Goge—*Glove.*



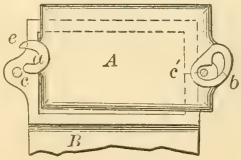

**91116**—W. W. Guild—*Guard for Door Knobs.*



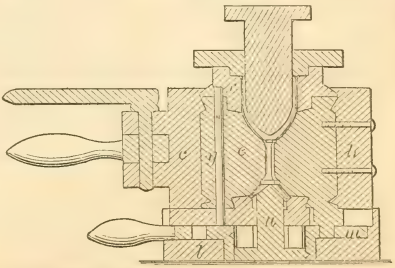

**91111**—S. N. French—*Carpet Fastener.*



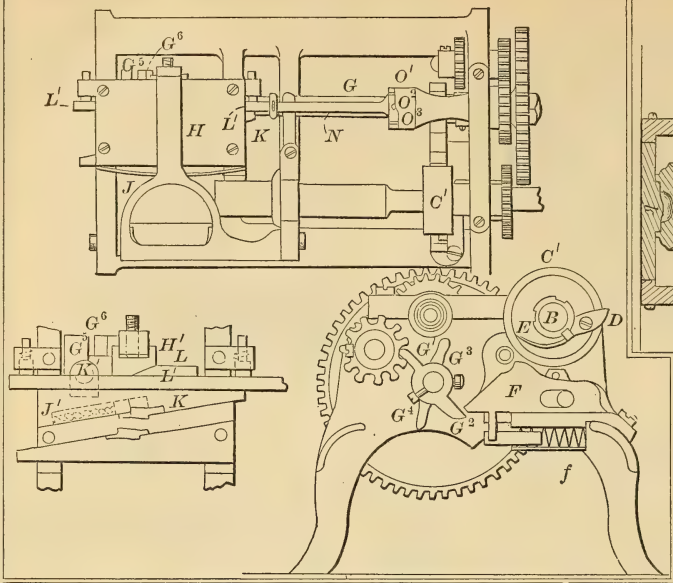

**91115**—F. Grinnell—*Axle Box Cover.*



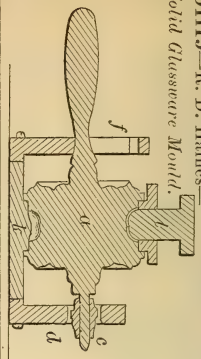

**91118**—R. D. Haines—*Mould for Glassware.*



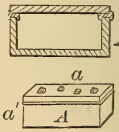
**91117**—N. B. Hadley—*For Threading Screws.*



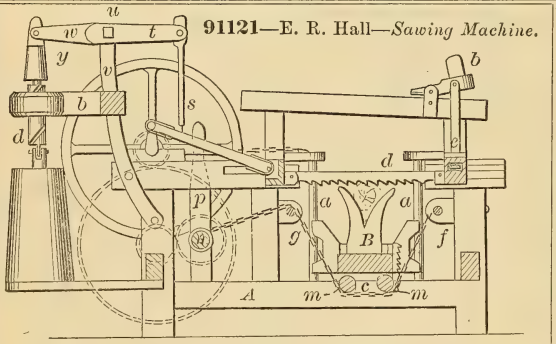

**91119**—R. D. Haines—*Solid Glassware Mould.*



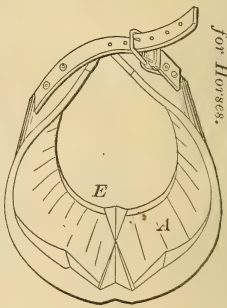

**91120**—Hall & Lee—*Steam Packing.*



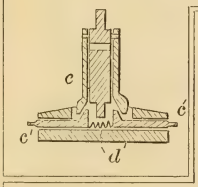

**91121**—E. R. Hall—*Sawing Machine.*

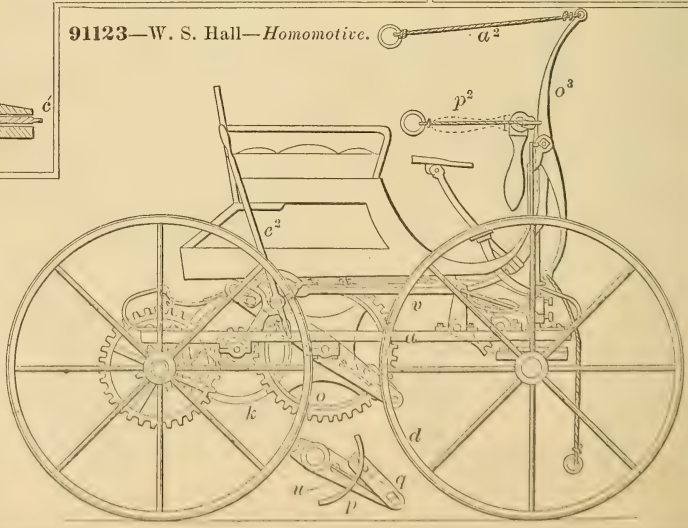



**91122**—W. H. Hall—*Heel Guard for Horses.*

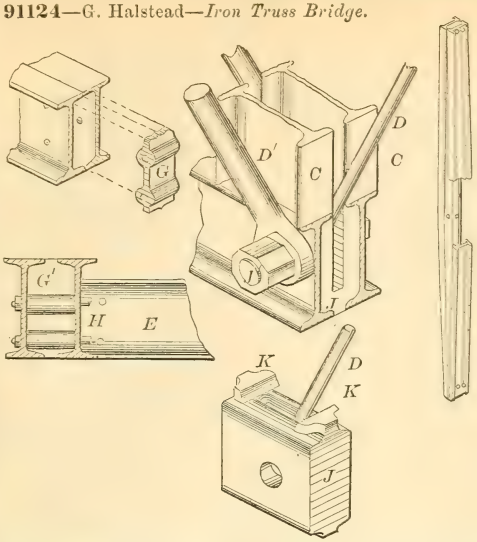



**91123**—W. S. Hall—*Homomotive.*

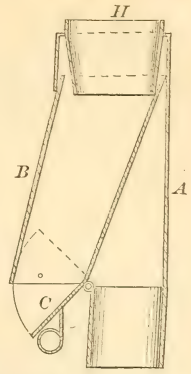


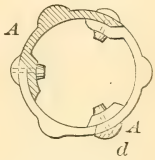
**91124**—G. Halstead—*Iron Truss Bridge.*



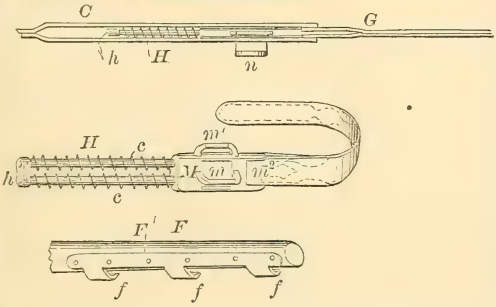

**91126**—C. C. Hare—*Current Changing Apparatus.*



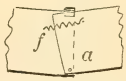

**91125**—G. Halstead—*Wrought Iron Column.*



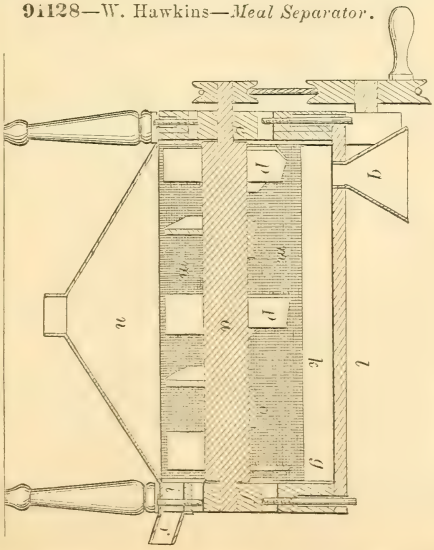

**91127**—J. K. Harris—*Harness.*



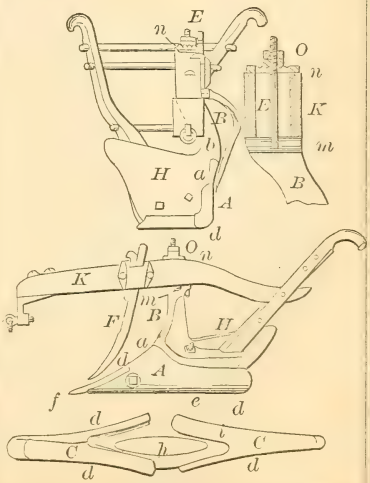

**91130**—A. B. Hendryx—*Lamp Shade.*



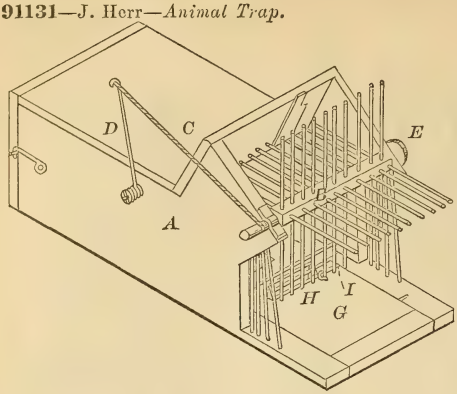

**91128**—W. Hawkins—*Meal Separator.*

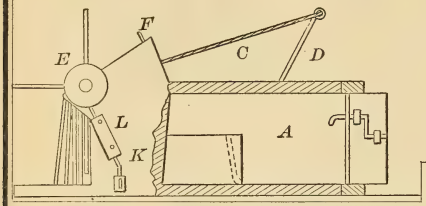



**91129**—J. Heckendorn—*Plow.*

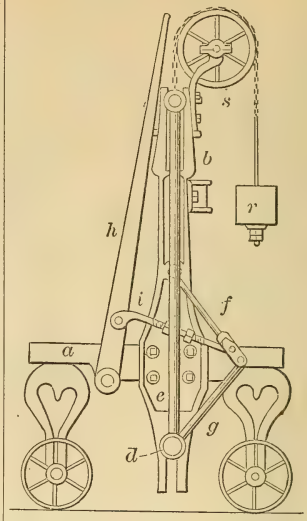


**91131**—J. Herr—*Animal Trap.*

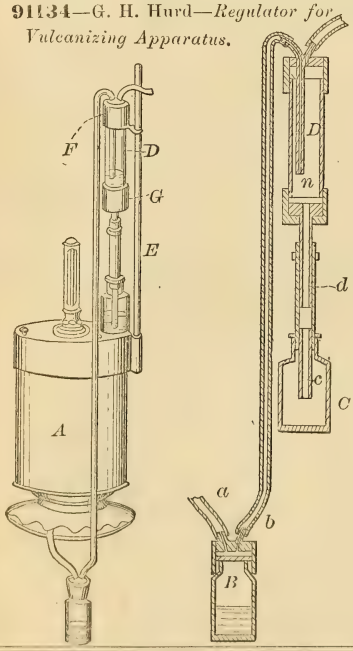


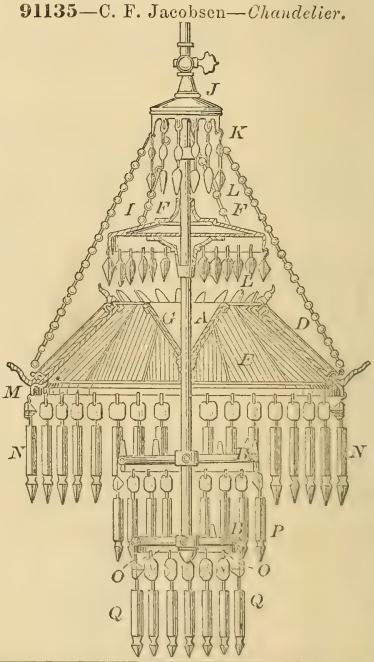

**91132**—Hersey & Hawes—*Glassware Press.*



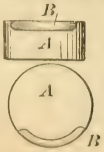

**91134**—G. H. Hurd—*Regulator for Vulcanizing Apparatus.*



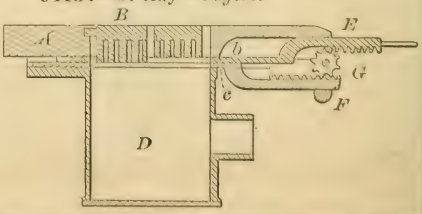

**91135**—C. F. Jacobsen—*Chandelier.*



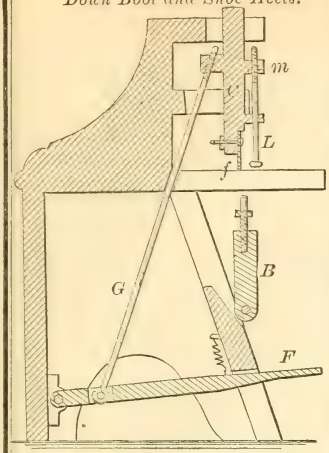

**91138**—J. J. Kenna—*For Polishing Shirt Bosoms.*



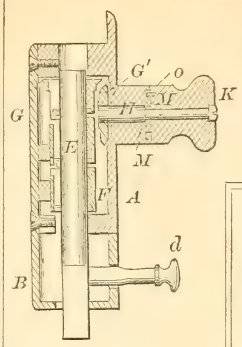

**91137**—J. Kay—*Tuyere.*

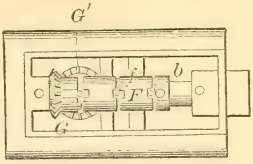


**91136**—J. L. Joyce—*For Cutting Down Boot and Shoe Heels.*

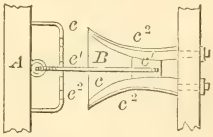


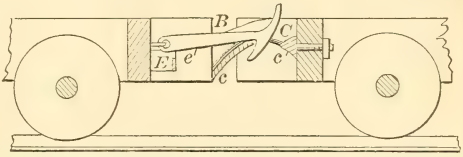

**91139**—L. W. Langdon—*Lock.*



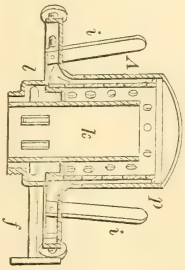




**91140**—A. Z. Long—*Car Coupling.*

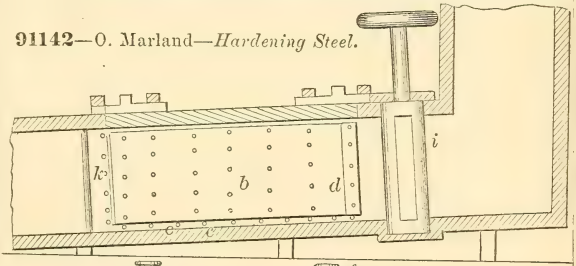


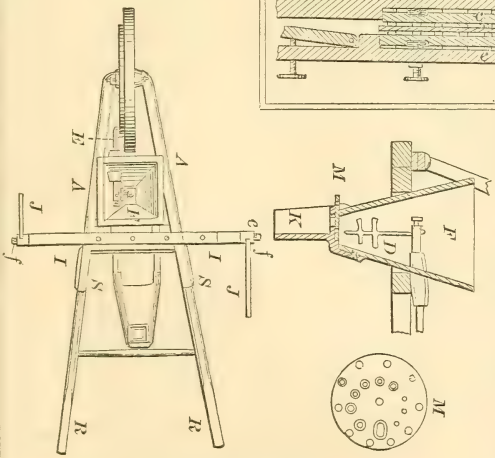

**91141**—J. C. Love—*Lamp Burner.*



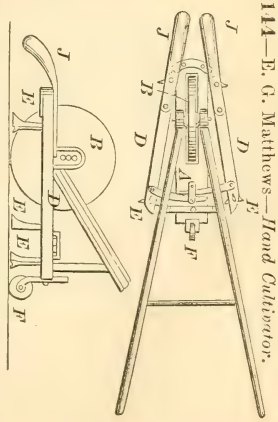

**91142**—O. Marland—*Hardening Steel.*




**91143**—E. G. Matthews—*Seed Planter.*

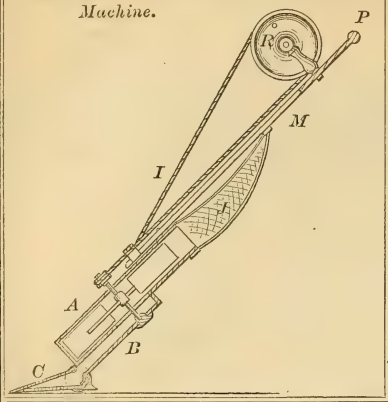



**91144**—E. G. Matthews—*Hand Cultivator.*

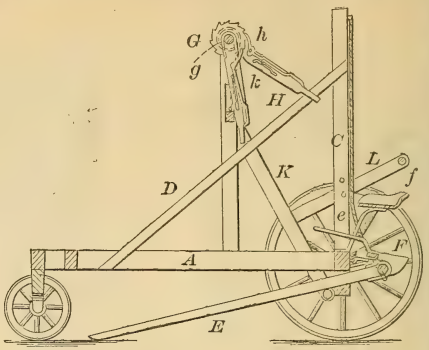



**91146**—R. A. McKanna—*Swivel Cock Eye.*

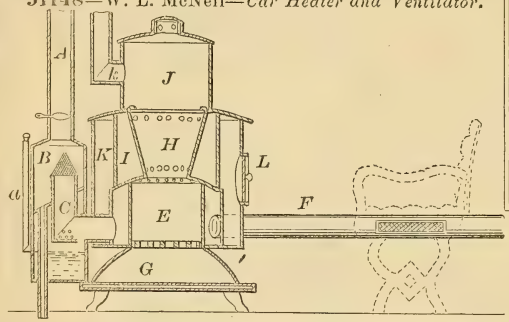
**91145**—I. W. McGaffey—*Sweeping Machine.*



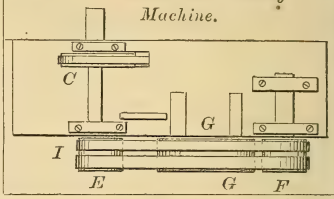

**91147**—A. J. & S. D. McKee—*Hay Loader.*



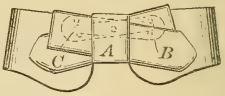

**91148**—W. L. McNeil—*Car Heater and Ventilator.*



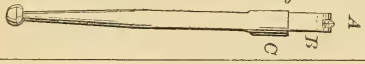

**91149**—S. W. Miller—*Sewing Machine.*



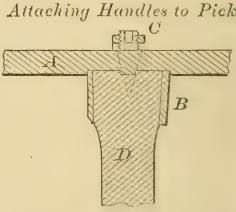

**91153**—P. C. Moulton—*Neck Tie Retainer.*



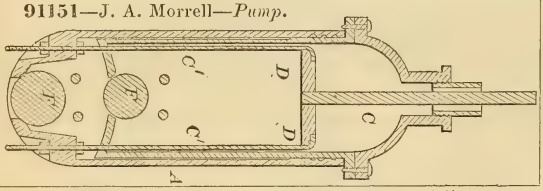

**91150**—S. G. Monce—*For Cutting Glass.*



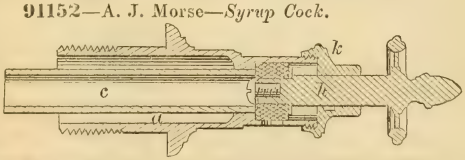

**91154**—T. H. Neal—*Attaching Handles to Picks.*




**91151**—J. A. Morrell—*Pump.*

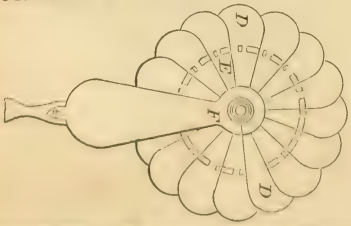



**91152**—A. J. Morse—*Syrup Cock.*

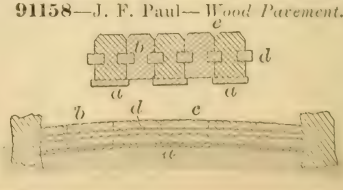



**91155**—I. E. Newton—*Stone Cutting and Dressing Saws.*

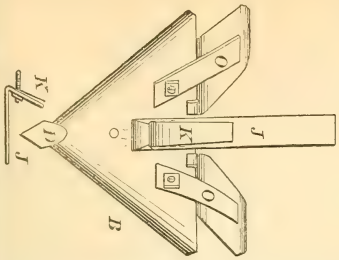
**91156**—O. R. Nitsch—*Fan.*



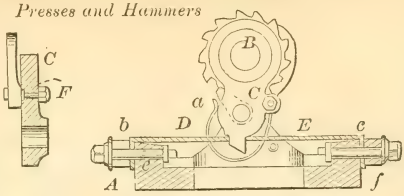

**91158**—J. F. Paul—*Wood Pavement.*



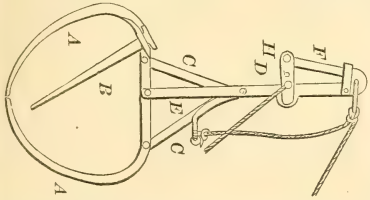
**91157**—W. O'Neill—*Plow.*



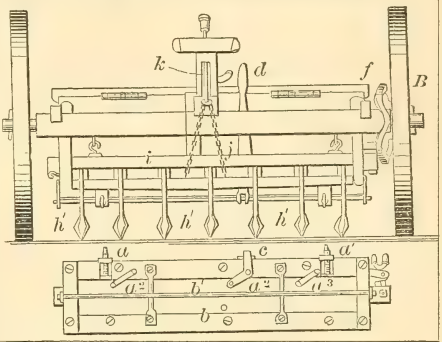

**91159**—C. Peck—*Lifting Device for Drop Presses and Hammers*



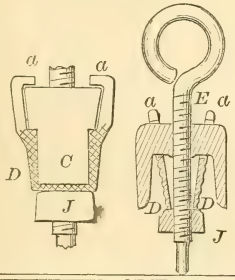

**91160**—G. C. Perry—*Horse Hay Fork.*



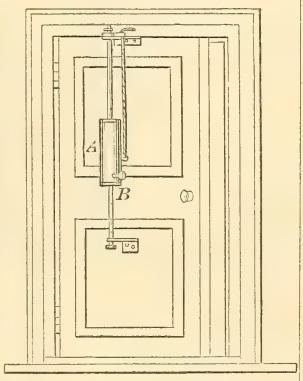

**91161**—O. M. Pond—*Seeder and Cultivator.*



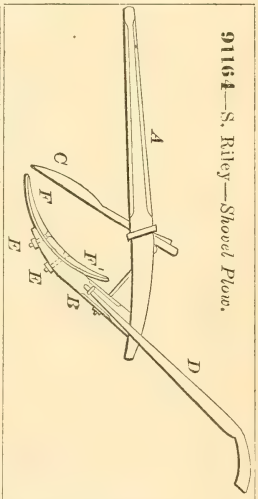

**91162**—J. M. Read—*Boot Crimper.*



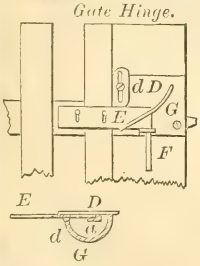

**91163**—J. Reiser—*Door Pulley.*



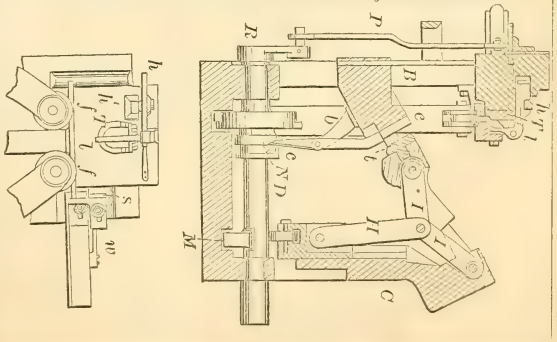

**91164**—S. Riley—*Shovel Plow.*



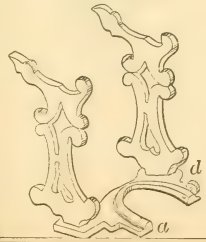

**91167**—I. J. Ryerson—*Gate Hinge.*



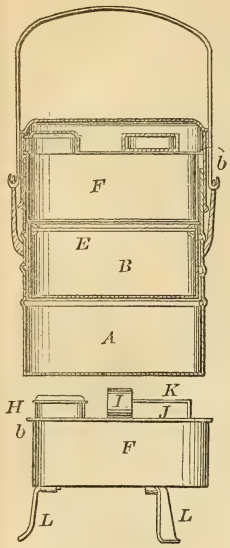

**91165**—W. D. Rinehart—*For Making Horse Shoes.*



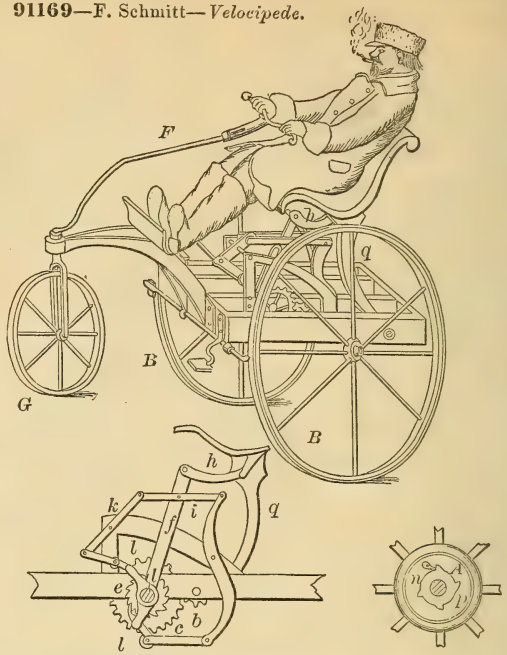

**91166**—C. A. Roberts—*Pen Rack.*



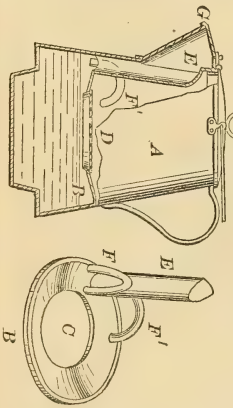
91168—M. Saulson—*Dinner Pail.*



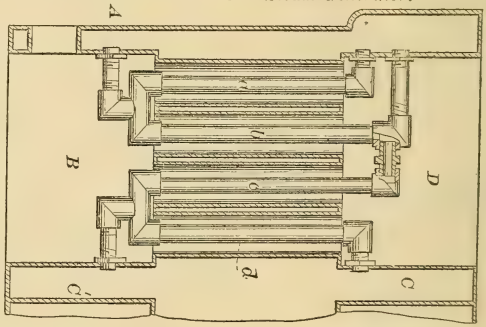

91169—F. Schmitt—*Velocipede.*



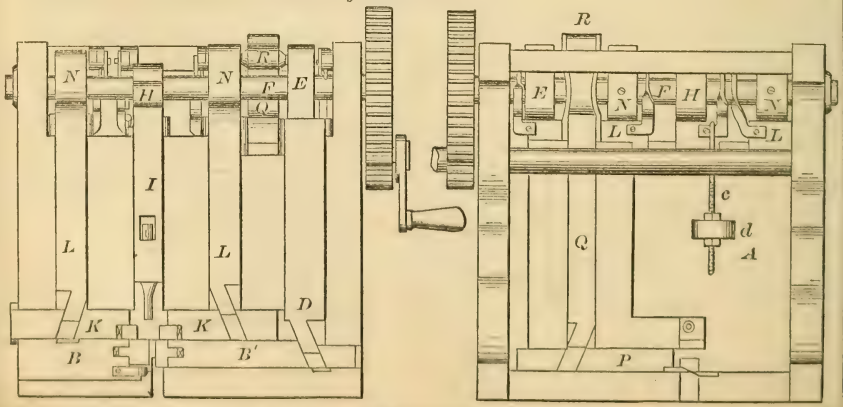

91170—C. H. Schollo—*Coffee Boiler.*



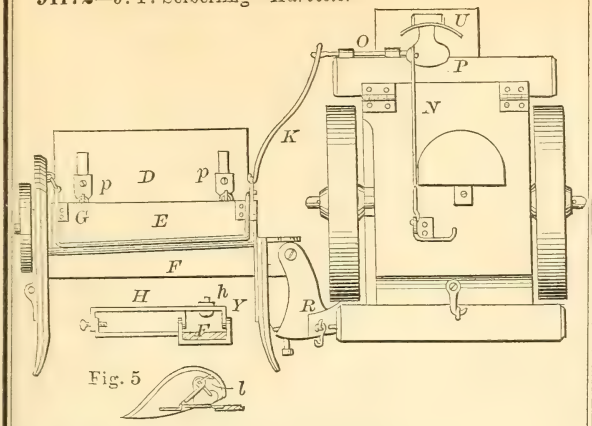

91173—E. B. Sintzenich—*Steam Generator.*



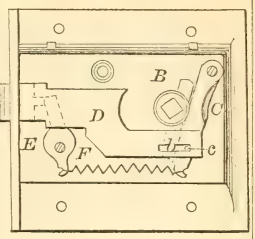

91171—F. Schweizer—*Bolt Heading Machine.*



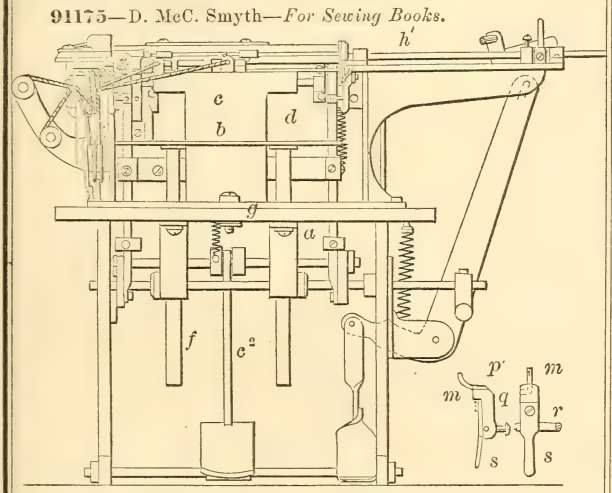
**91172**—J. F. Seiberling—*Harvester*



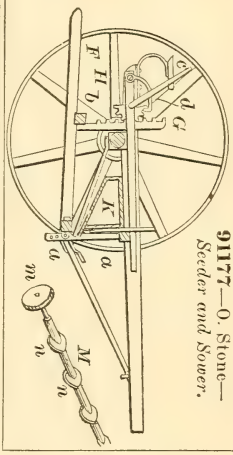

**91174**—T. Slaight—*Knob Latch.*



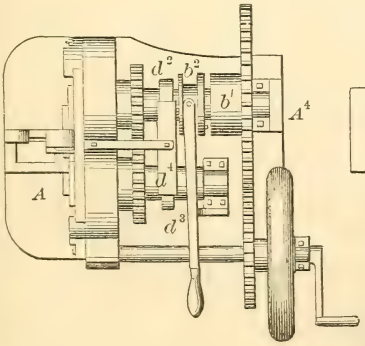

**91175**—D. McC. Smyth—*For Sewing Books.*

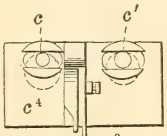


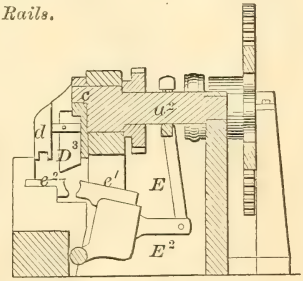

**91177**—O. Stone—*Seeder and Sower.*



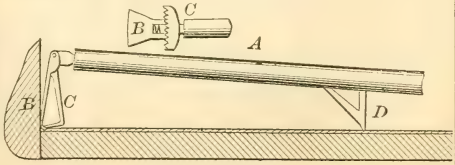

**91178**—J. Stone—*For Welding and Cutting Railroad Rails.*



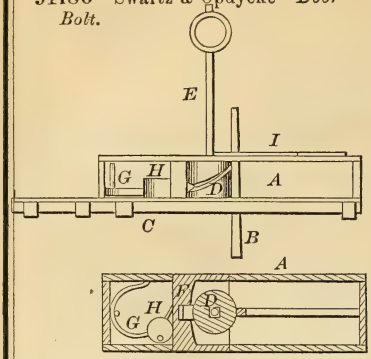



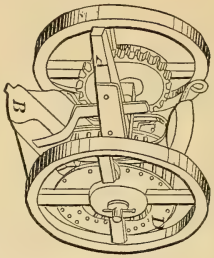

**91179**—T. B. Stout—*Carpet Stretcher.*



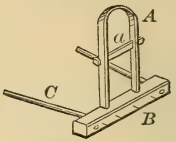
**91180**—Swartz & Opdycke—*Door Bolt.*



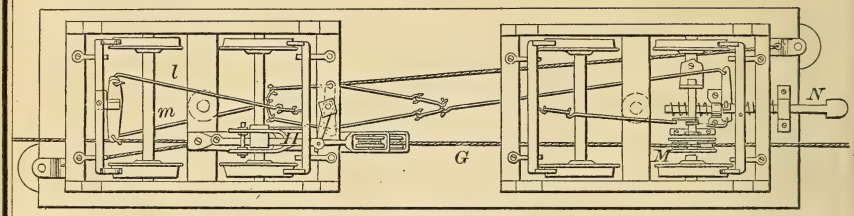

**91182**—D. C. Thomas—*Potato Digger.*



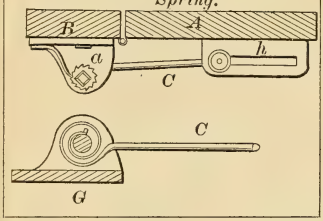

**91183**—J. L. W. Townsend—*Yoke.*



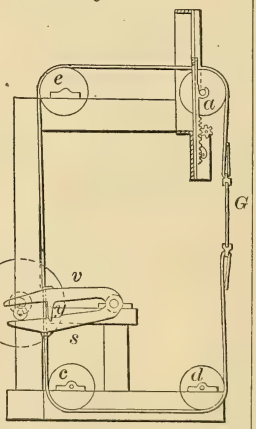

**91181**—Tatham & Steger—*Car Brake.*



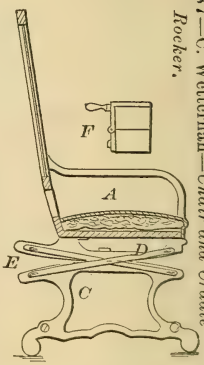

**91184**—J. L. Tucker—*Door Spring.*



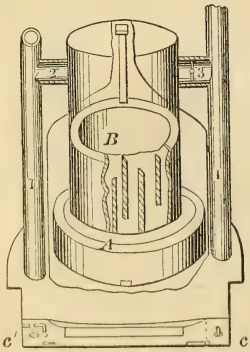

**91185**—W. P. Uhlinger—*Sawing Machine.*



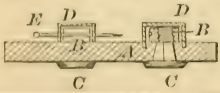

**91187**—C. Wetterhan—*Chair and Cradle Rocker.*




**91186**—R. B. Varden—*Stove.*

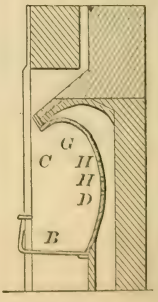



**91188**—R. White—*Lock Nut.*

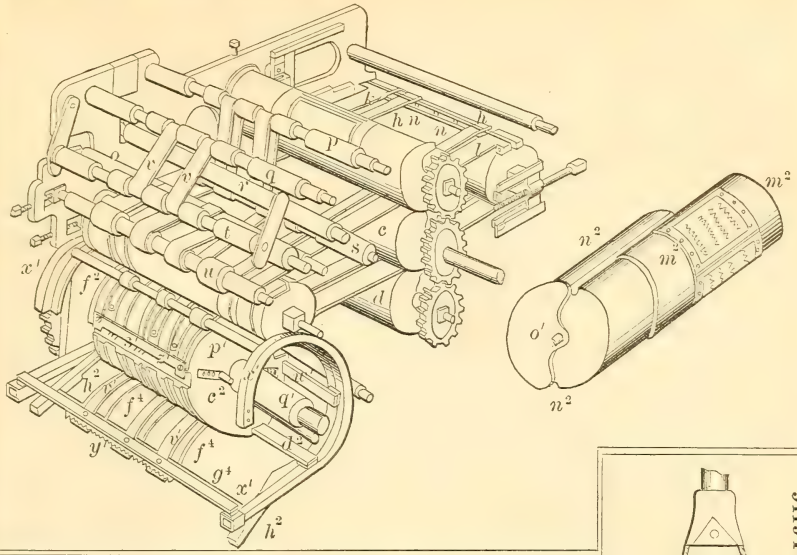



**91189**—D. Wilcox—*Hat.*

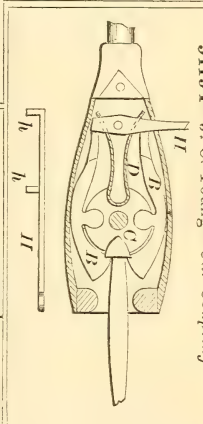
**91190**—A. Wilkin—*Fireplace.*



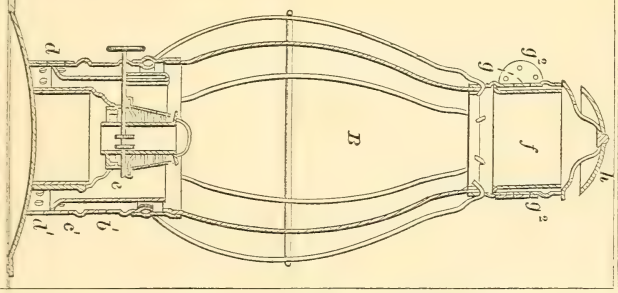
**91191**—J. K. Wright—*Printing Press.*



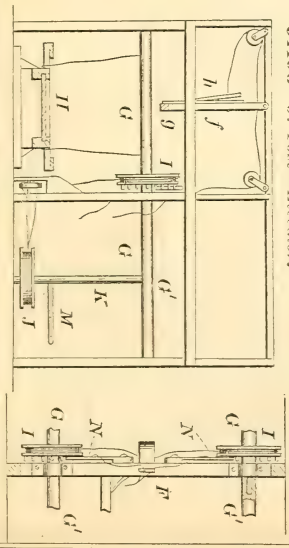
**91194**—J. C. Young—*Car Coupling.*



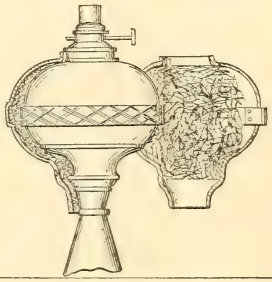
**91192**—H. C. Yerby—*Lantern*



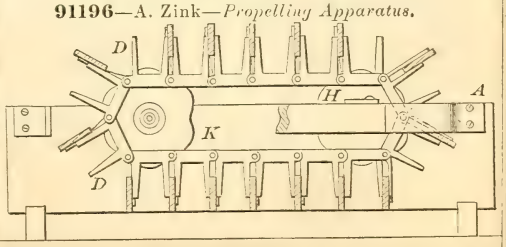
**91193**—J. Yost—*Elevator.*



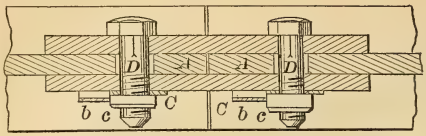
**91195**—C. Zaiser—*Lamp.*

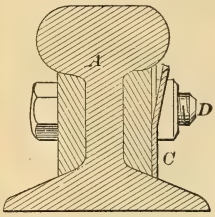


**91196**—A. Zink—*Propelling Apparatus.*

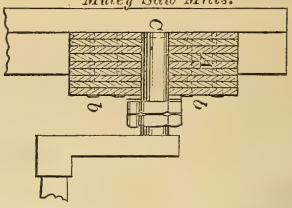


**91197**—S. C. Adams—*Nut Lock.*

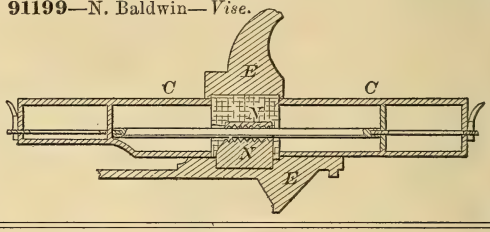


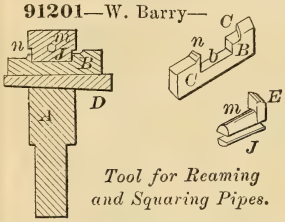

**91200**—A. P. Barlow—*Slide Block for Muley Saw Mills.*




**91199**—N. Baldwin—*Vise.*



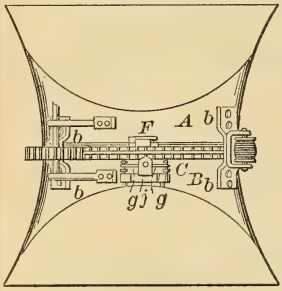

**91201**—W. Barry—

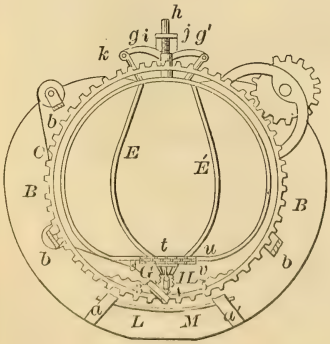



*Tool for Reaming and Squaring Pipes.*

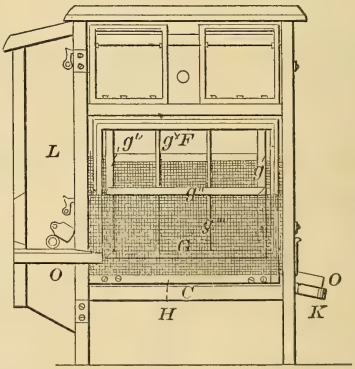
**91198**—A. B. Auer—*Check Book Clip.*

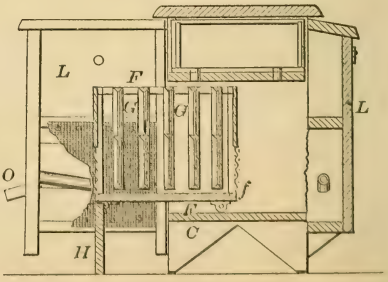
**91202**—C. L. Beamer—*Grain Binder.*



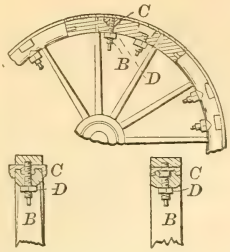



**91203**—H. Berix—*Beehive.*

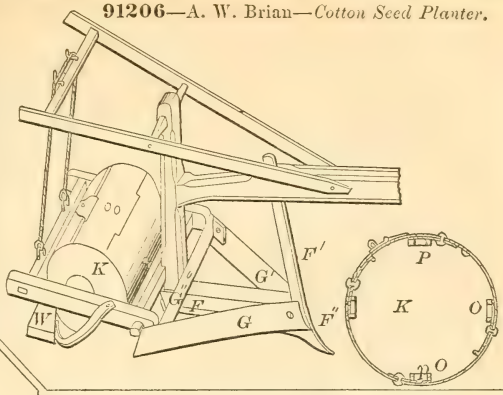


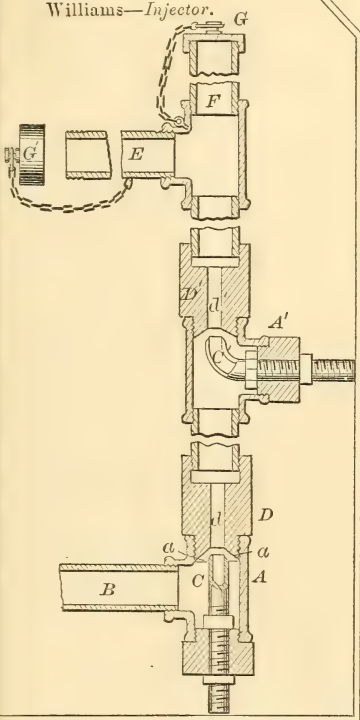
**91204**—C. W. Bierbach—*Wagon Wheel.*



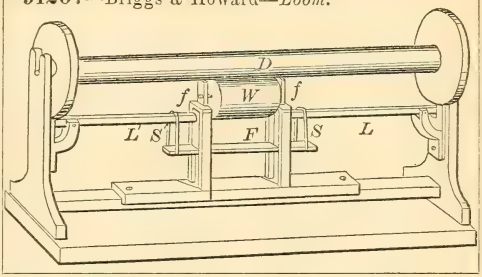

**91206**—A. W. Brian—*Cotton Seed Planter.*



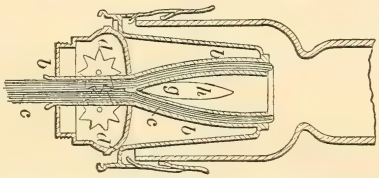

**91205**—Blakslee & Williams—*Injector.*



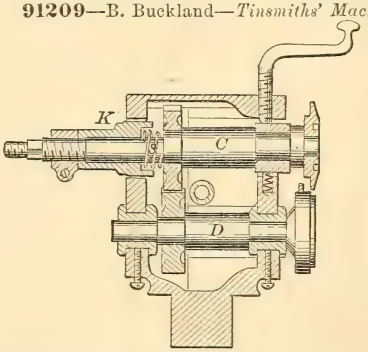

**91207**—Briggs & Howard—*Loom.*



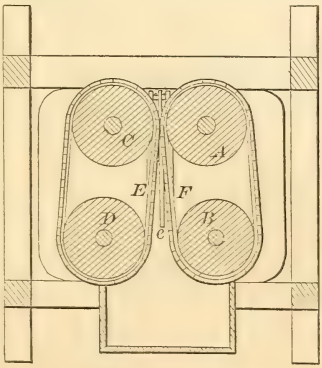

**91208**—A. W. Browne—*Lamp Burner.*



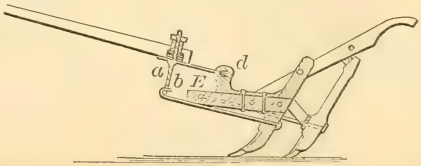

**91209**—B. Buckland—*Tinsmiths' Machine.*



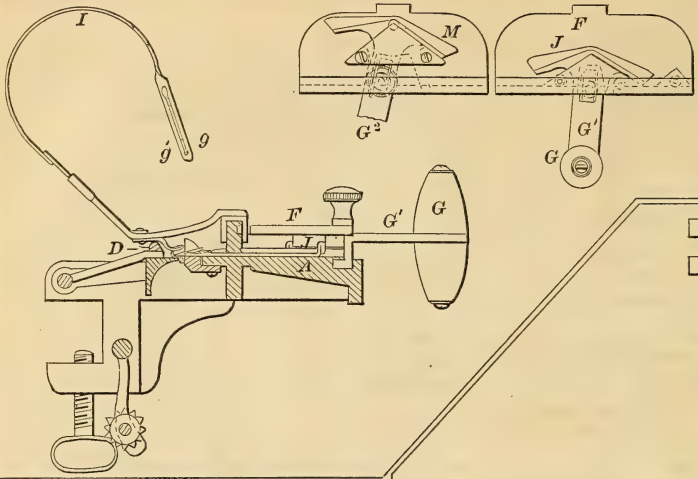

**91210**—C. L. Carter—*Cider Mill.*



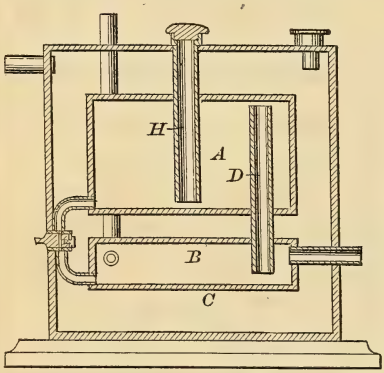

**91212**—B. M. Close—*Cultivator.*



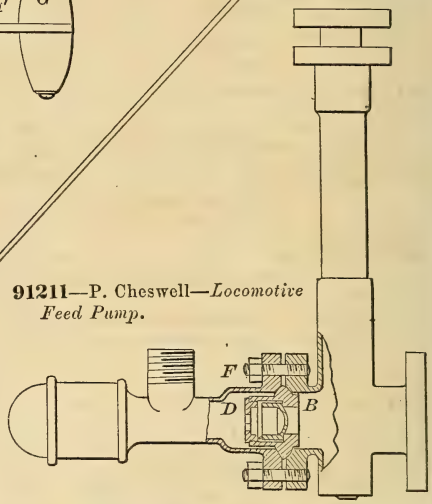
**91215**—T. Crane—*Knitting Machine.*



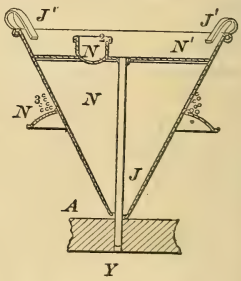

**91213**—W. H. Covel—*Carburetter.*



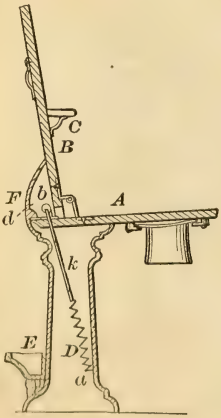

**91211**—P. Cheswell—*Locomotive Feed Pump.*

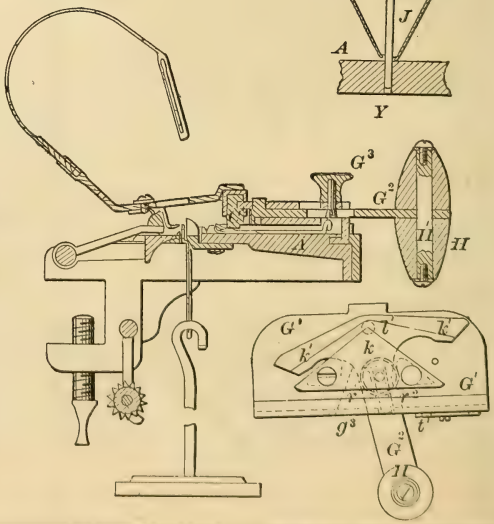



**91214**—T. Crane—*Knitting Machine.*

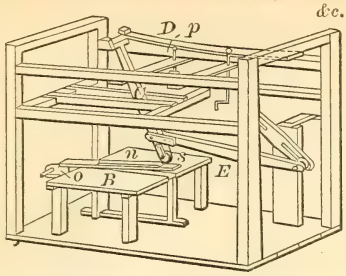



**91217**—W. Dixon—*Theatre Chair.*

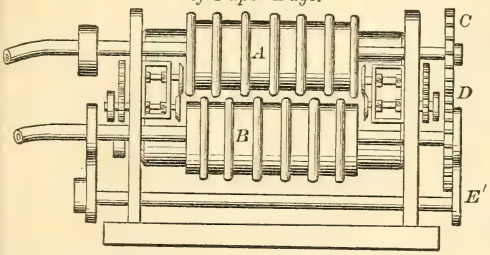


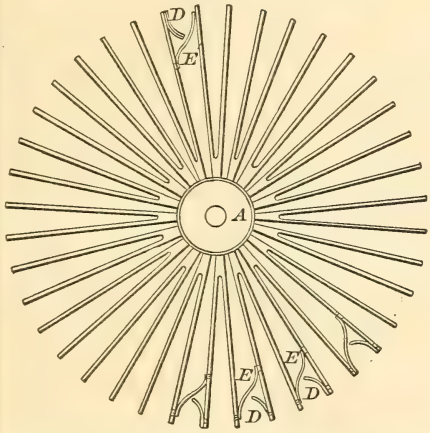
**91219**—P. Farrell—*For Finishing Leather, Paper &c.*



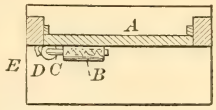

**91220**—W. E. Farrell—*Paper for the Manufacture of Paper Bags.*



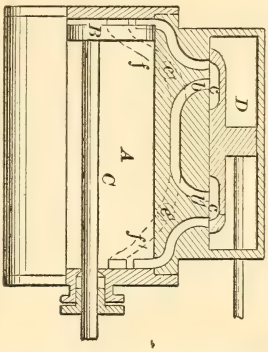

**91221**—A. C. Fletcher—*Paddle Wheel.*



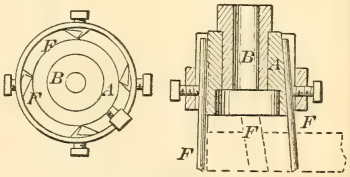

**91222**—O. V. Flora—*Door Spring.*



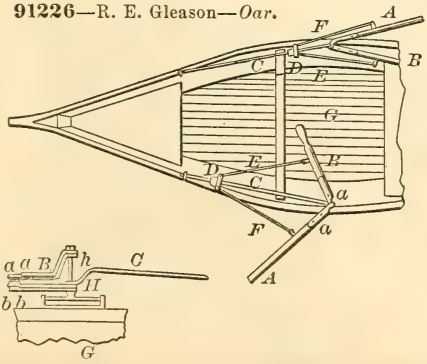

**91224**—W. Fuzzard—*Steam Engine.*



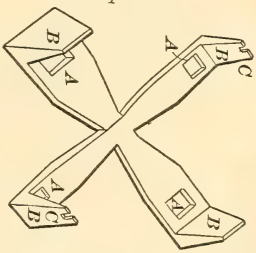

**91225**—A. J. Gibson—*Bung Cutter.*



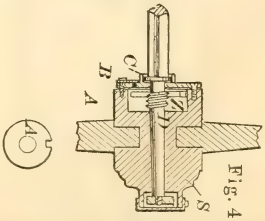

**91226**—R. E. Gleason—*Oar.*



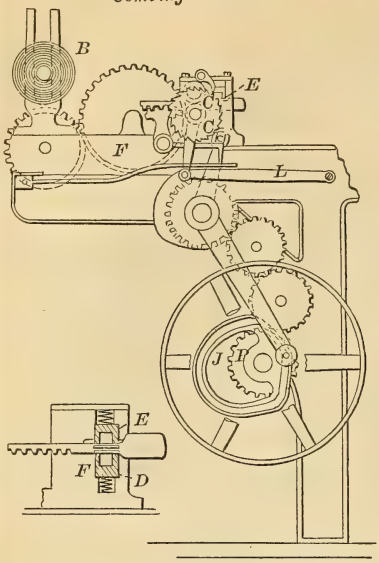

**91227**—A. Guinzburg—*Household Implement.*



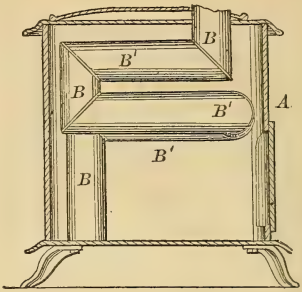

**91228**—J. Gunn—*For Attaching Hubs to Axles.*



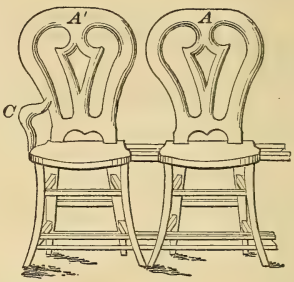
**91229**—Hadley & Johnson—*Cotton Combing Machine.*



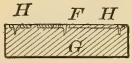

**91231**—Hepburn & Reiner—*Stove Drum.*



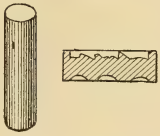

**91232**—S. Hill—*Settee.*



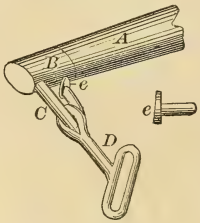

**91234**—J. W. Hyatt, Jr.—*Dominos.*



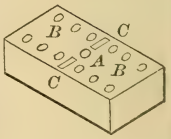

**91233**—J. W. Hyatt, Jr.—*Checker Men.*



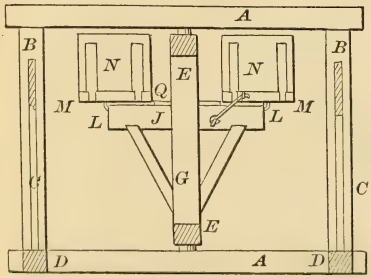
**91230**—J. A. Hammon—*Whiffletree Hook.*



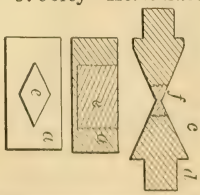

**91235**—J. W. Hyatt, Jr.—*Dominos.*



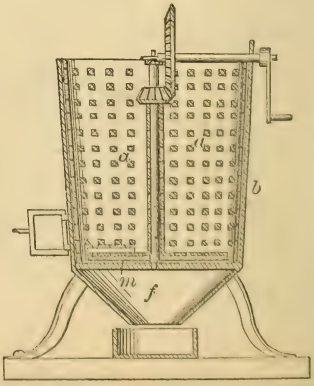

**91236**—J. N. Jackson—*For Loading Locomotive Tenders.*



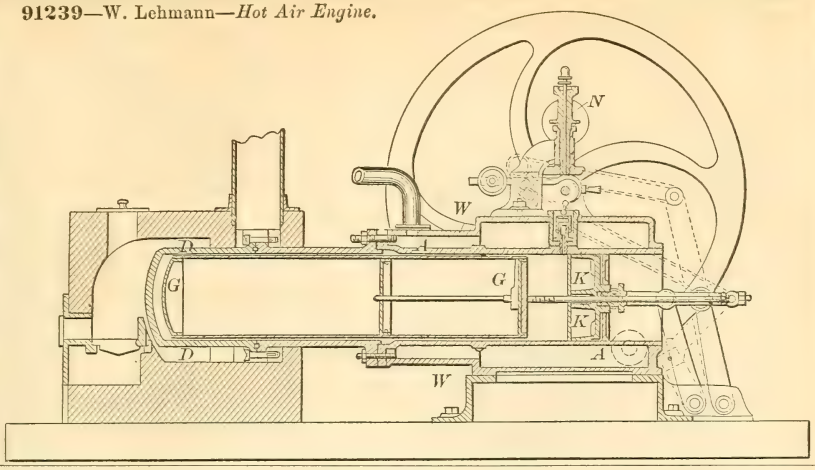

**91237**—J. Jorey—*Horse Shoe Calk.*



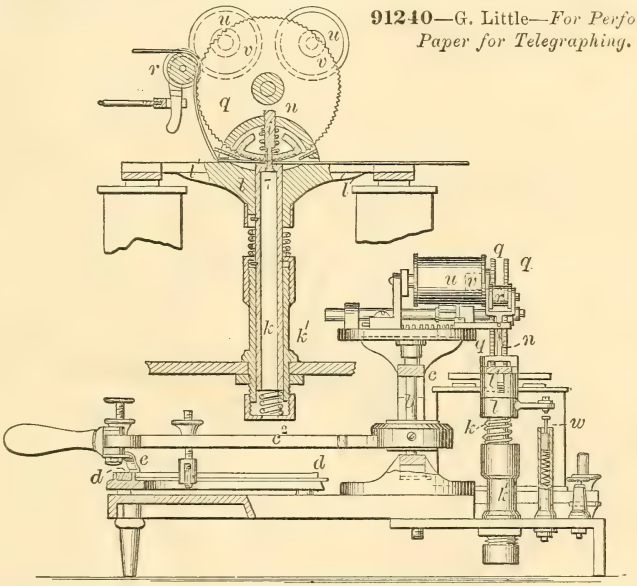

**91238**—C. Lehman—*For Peeling Fruit.*



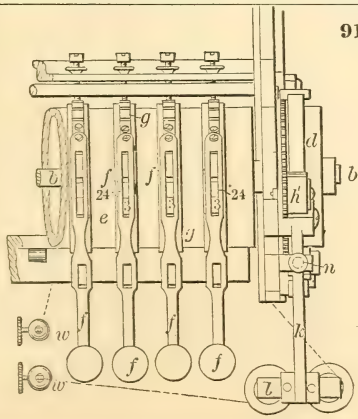
**91239**—W. Lehmann—*Hot Air Engine.*

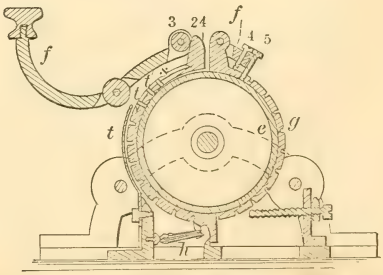



**91240**—G. Little—*For Perforating Paper for Telegraphing.*

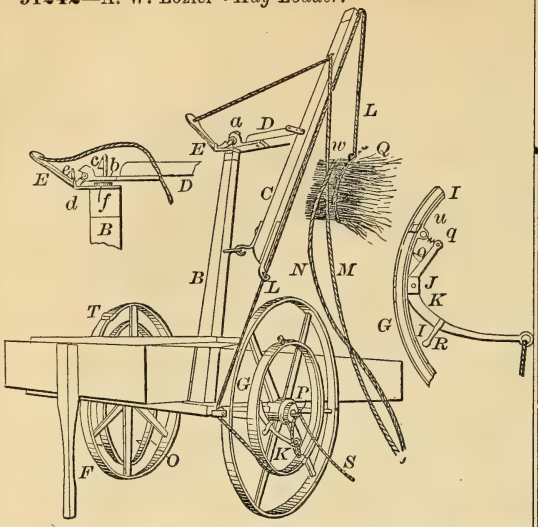



**91241**—G. Little—*For Perforating Paper Automatic Transmitters.*

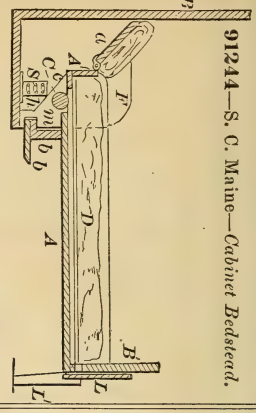


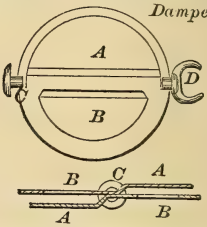
**91242**—A. W. Lozier—*Hay Loader.*



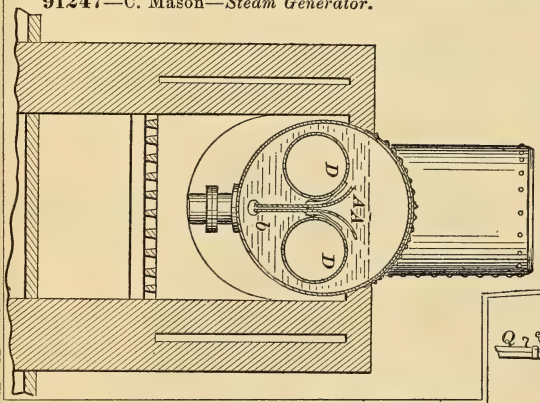

**91244**—S. C. Maine—*Cabinet Bedstead.*



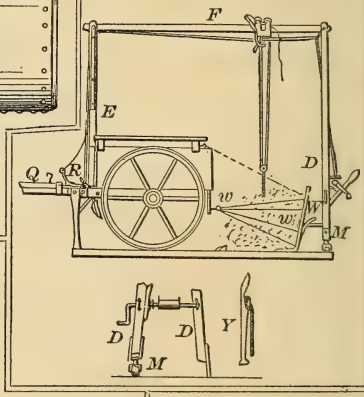

**91245**—H. Mallory—*Stove Damper.*



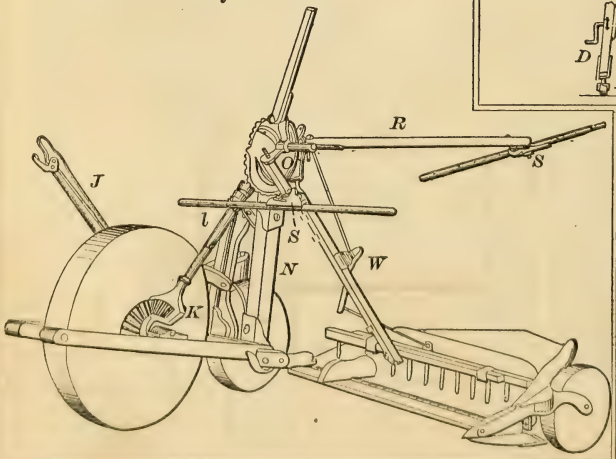

**91247**—C. Mason—*Steam Generator.*



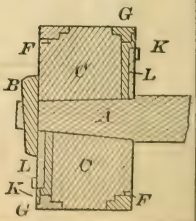

**91243**—A. W. Lozier—*Hay Rake and Loader.*



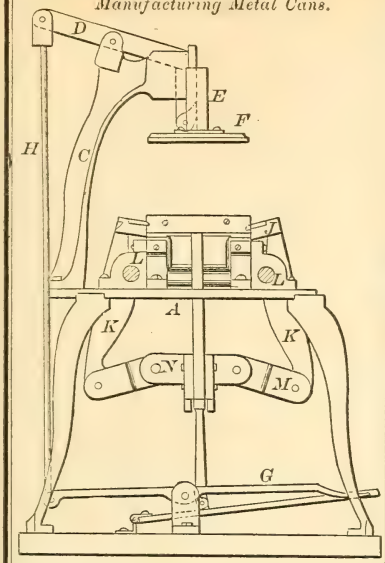

**91246**—J. P. Manny—*Harvester.*



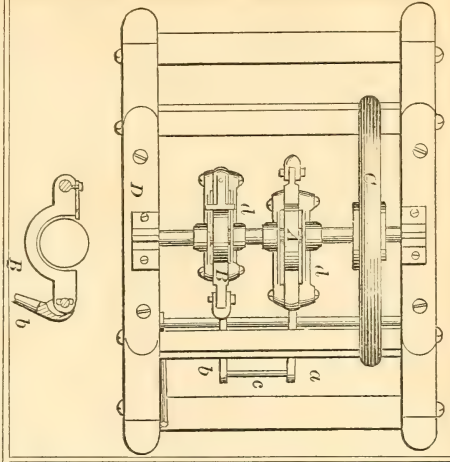

**91250**—A. McMullin—*Piston Packing.*



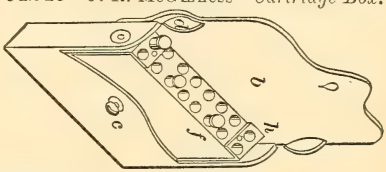
**91248**—Mays & Bliss—*For Manufacturing Metal Cans.*



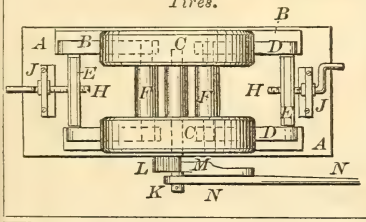

**91251**—H. Merriman—*Mechanical Movement.*



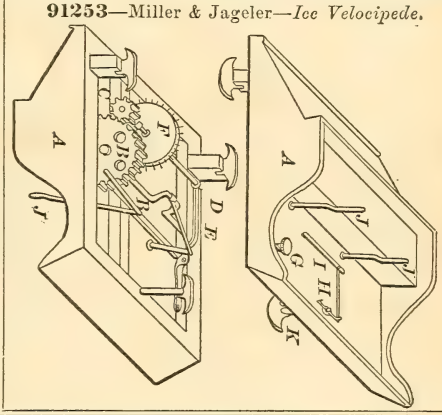

**91249**—J. R. McGinness—*Cartridge Box.*



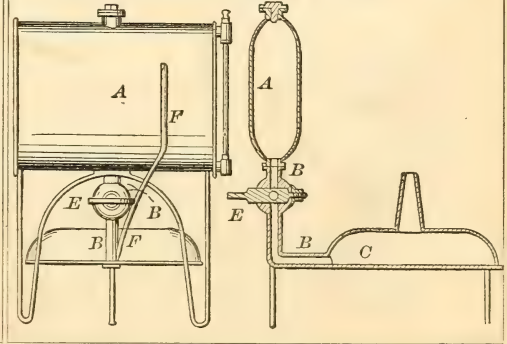

**91252**—J. Metzgar—*For Bending Tires.*

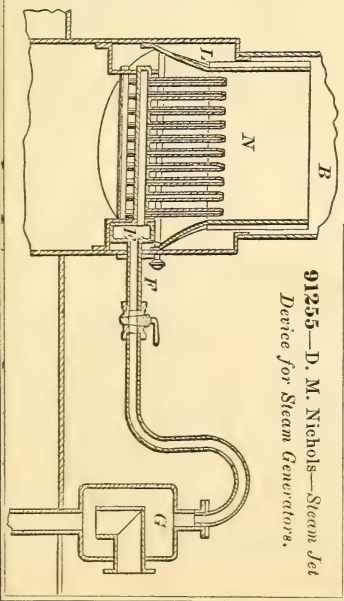



**91253**—Miller & Jageler—*Ice Velocipede.*



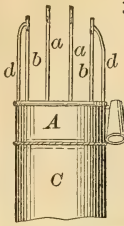

**91254**—R. Mitchell—*Steam Generator.*



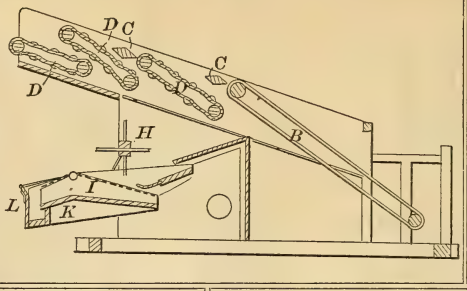




**91255**—D. M. Nichols—*Steam Jet Device for Steam Generators.*

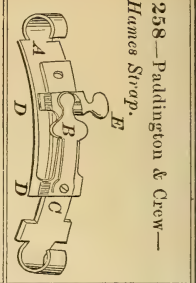
**91256**—T. Nutting—*Fruit Picker.*



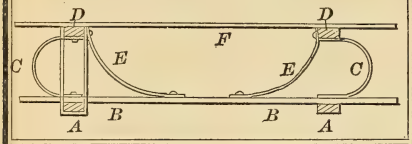

**91257**—G. Oerllein—*Threshing Machine.*



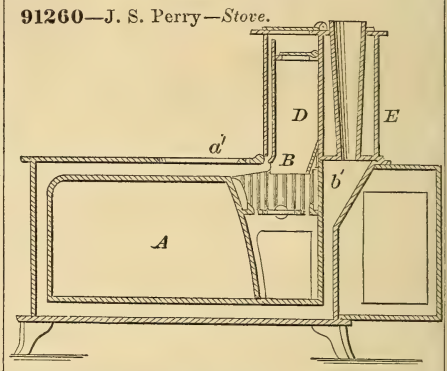

**91258**—Paddington & Crew—*Hames Strap.*



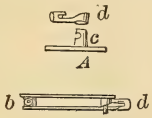

**91259**—T. Payne—*Bed Bottom.*



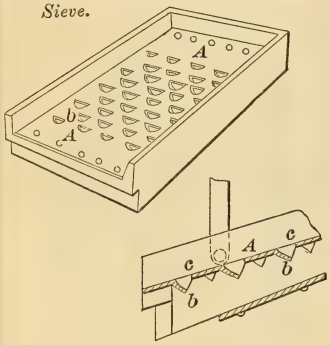

**91260**—J. S. Perry—*Stove.*



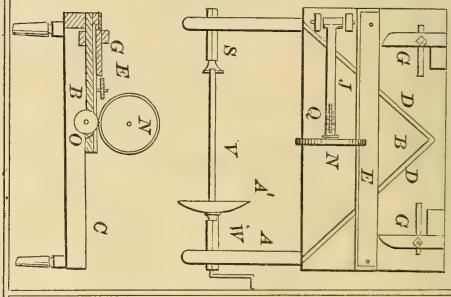

**91261**—C. F. Pierce—*Safety Attachment for Breastpins.*



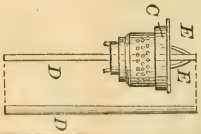

**91262**—Plamandan & Maher—*Grain Sieve.*




**91264**—Race & Whitney—*For Measuring and Winding Cloth, &c.*

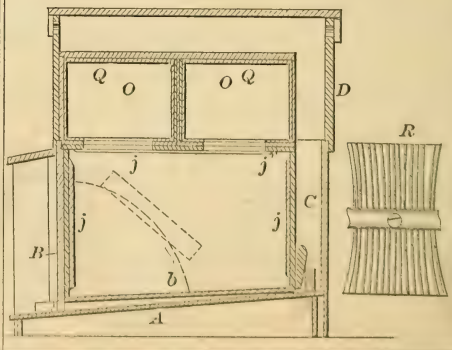



**91263**—G. Pugh—*Lamp.*

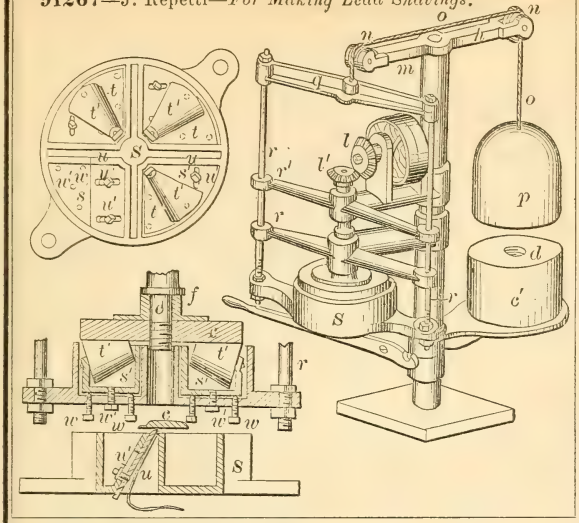



**91265**—J. S. Rankin—*Uterine Supporter.*

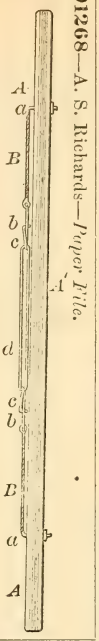
**91266**—Redfield & Hubbard—*Beehive.*



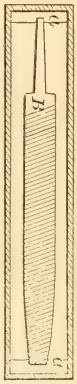
**91267**—J. Repetti—*For Making Lead Shavings.*



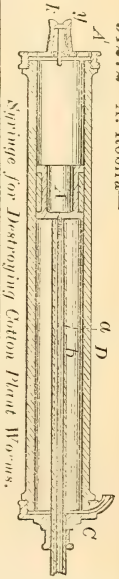
**91268**—A. S. Richards—*Paper File.*



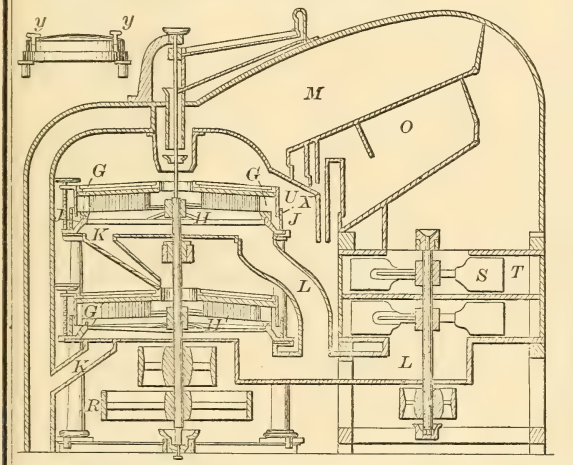
**91271**—X. Robert—*For Reeding Files.*



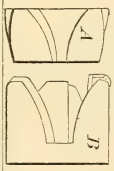
**91272**—A. Robira—*Syringe for Destroying Cotton Plant Worms.*



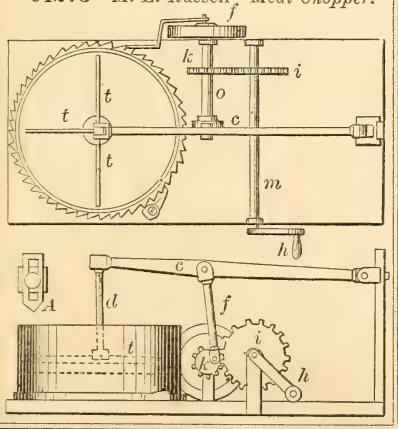
**91270**—H. Richmann—*Grain Separator.*



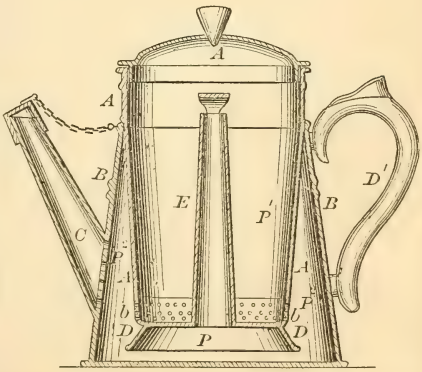
**91269**—Richards & Curtiss—*Cutter Head.*



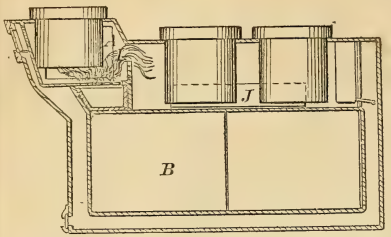
**91273**—M. E. Russell—*Meat Chopper.*



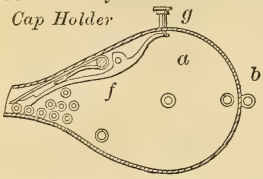
**91274**—S. T. Savage—*Coffee Pot.*



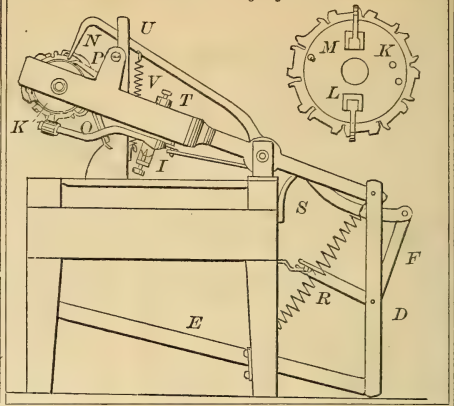
**91275**—A. C. Schwanke—*Stove.*



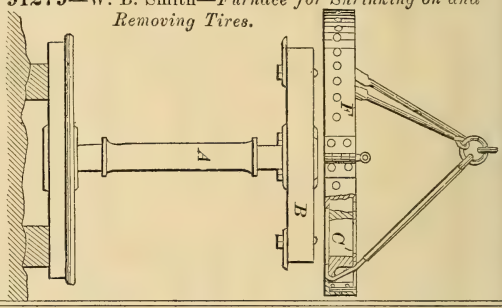

**91276**—Seymour & Perkins—*Percussion Cap Holder*



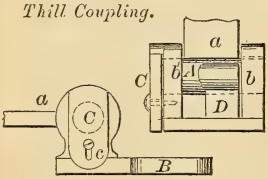

**91277**—C. L. Sholes—*Paging Machine.*



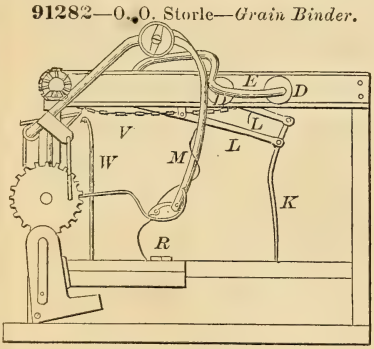

**91279**—W. B. Smith—*Furnace for Shrinking on and Removing Tires.*

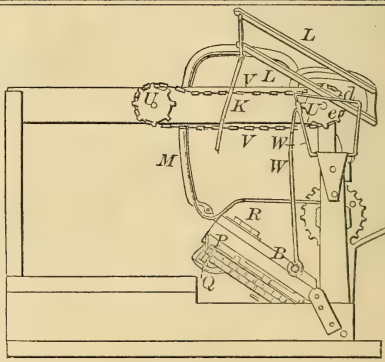


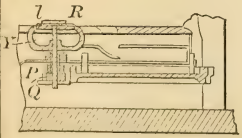

**91280**—Spalding & Southwell—*Thill Coupling.*




**91282**—O. O. Storle—*Grain Binder.*

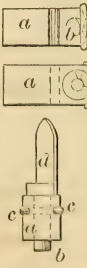


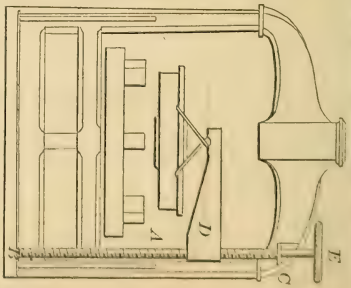




**91278**—D. Smith—*Cartridge.*

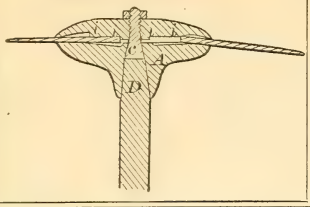
**91281**—E. M. Stevens—*For Beveling up Boot and Shoe Soles.*



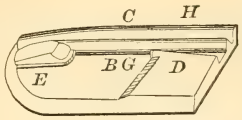

**91283**—H. D. Stover—*Hoisting Apparatus.*



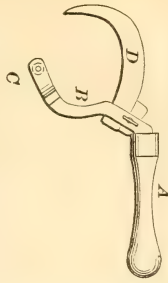
**91284**—H. P. Straub—*Millstone Pick.*



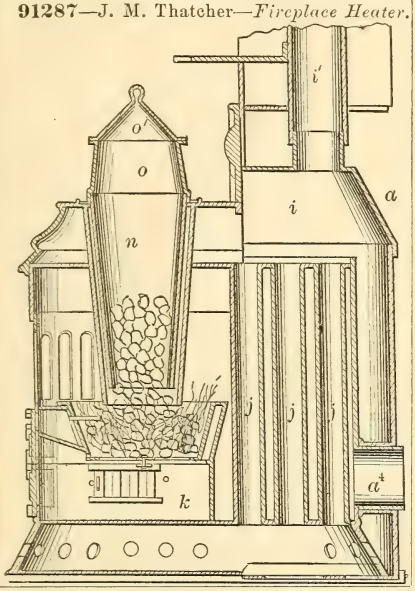

**91285**—J. B. Sulgrove—*Sewing Machine Corder.*



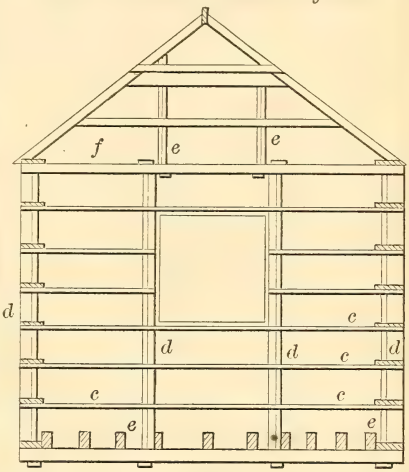

**91286**—J. Temple—*For Paring Horses' Hoofs.*



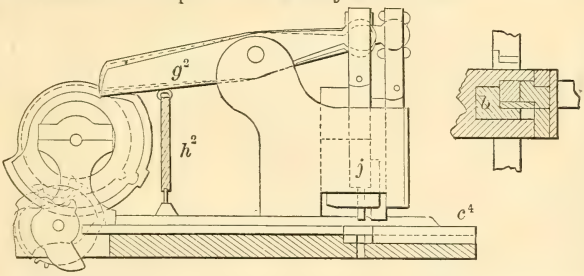

**91287**—J. M. Thatcher—*Fireplace Heater.*



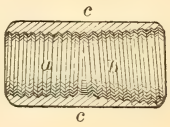

**91289**—F. Walton—*Constructing Houses.*



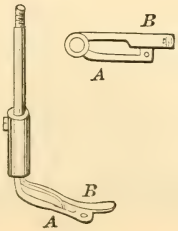

**91288**—A. S. Upson—*For Making Metallic Nuts.*



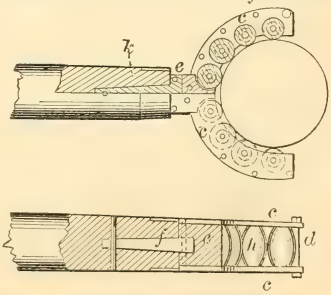

**91291**—F. R. Wegman—*Pipe Coupling.*



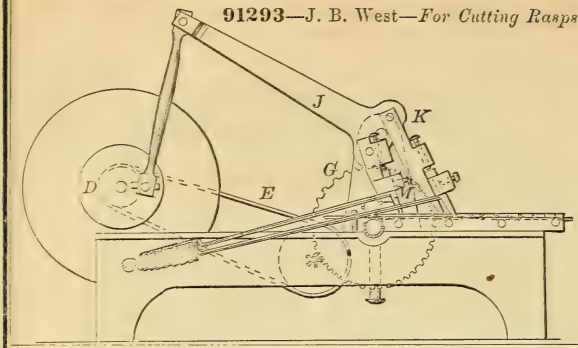

**91292**—G. W. Wells—*Sewing Machine Guide.*



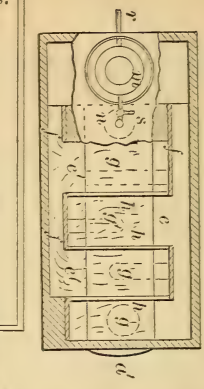

**91290**—I. Webster—*Jaw for Brooms.*



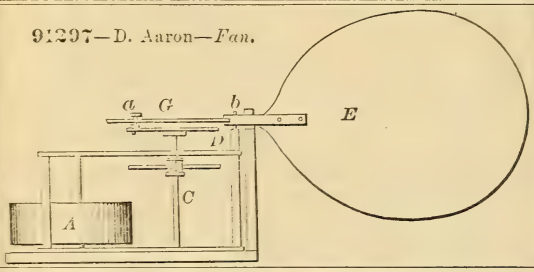
91293—J. B. West—*For Cutting Rasps.*

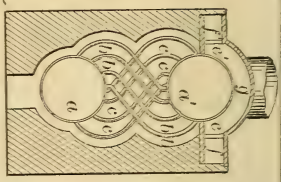



91294—I. W. Willong—*Steam Generator.*

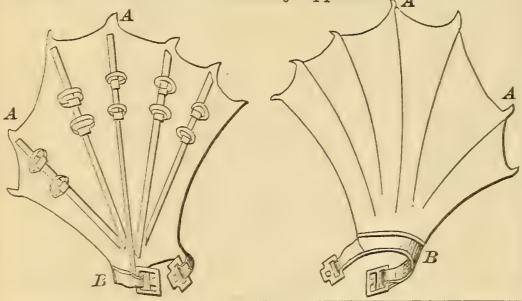


91297—D. Aaron—*Fan.*

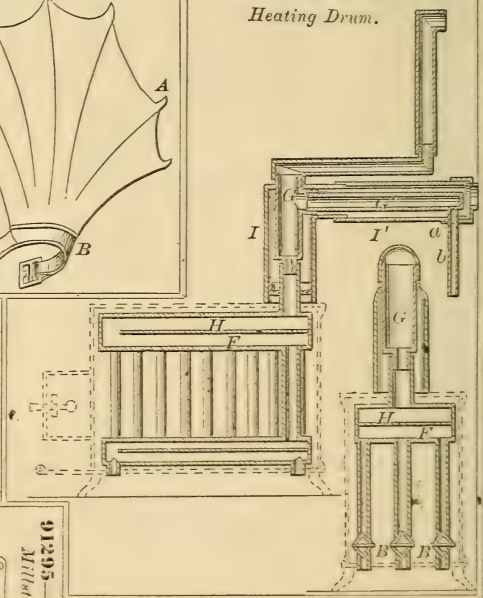


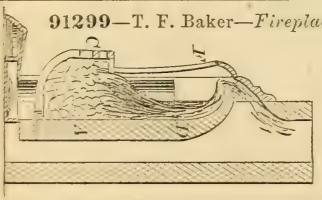
91300—F. Barnett—*Swimming Apparatus.*



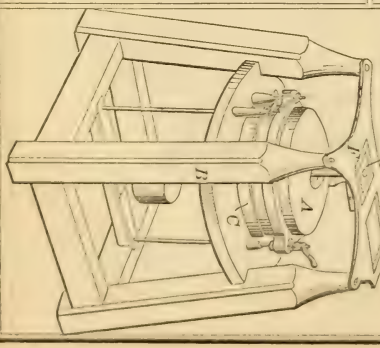

91301—S. M. Bayard—*Heating Drum.*



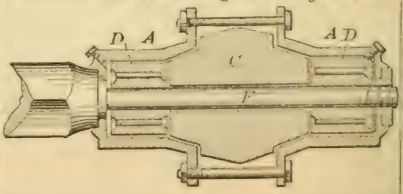

91299—T. F. Baker—*Fireplace.*



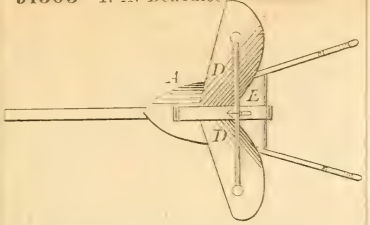
91295—A. W. Winall—*Hanging Millstones.*



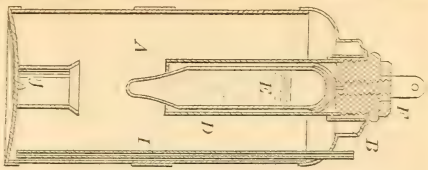

91302—H. V. Belding—*Carriage Hub.*



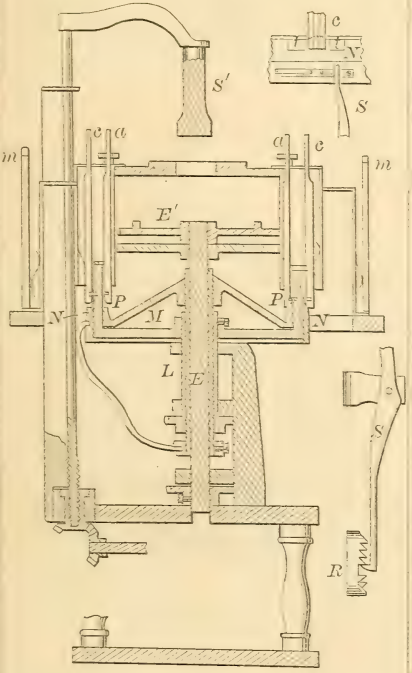
91303—I. A. Benedict—*Cultivator.*



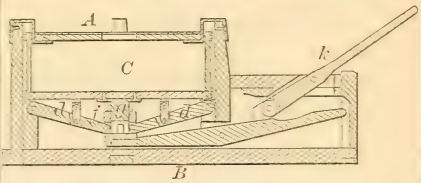

91304—J. F. Boynton—*For Extinguishing Fires.*



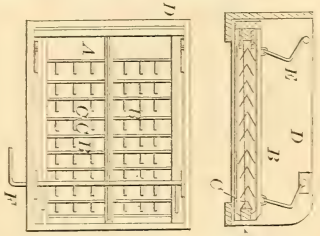

91305—P. Brooks—*Loom.*



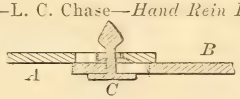

91306—Brown & Gould—*Tire Cooler.*



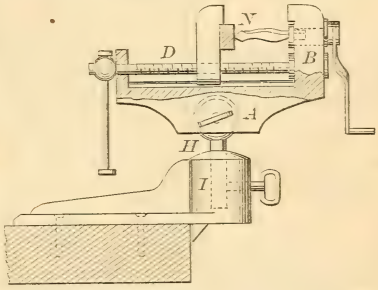

91307—L. D. Carpenter—*Grain Sieve.*



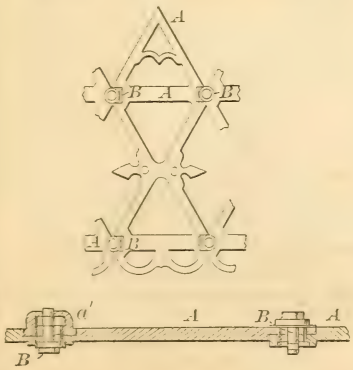

91308—L. C. Chase—*Hand Rein Fastening*



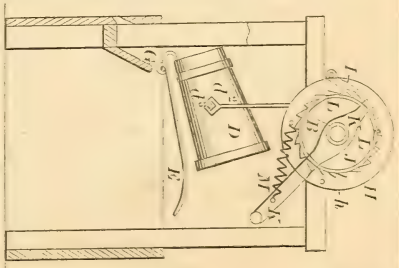

91309—O. Dean—*Vise and Drill.*




91310—D. J. De Groat—*Fence.*

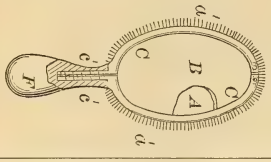



91311—G. W. Dickerson—*Water Elevator.*

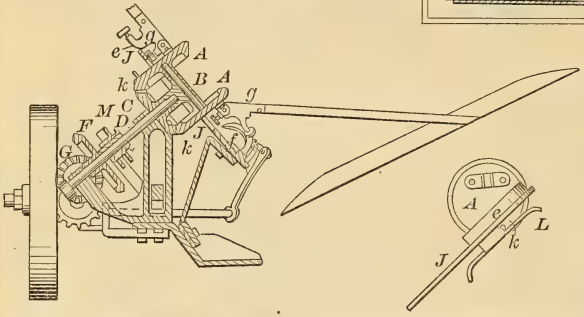


**91312**—J. Dickinson—*For Holding Diamonds for Dressing Stone.*

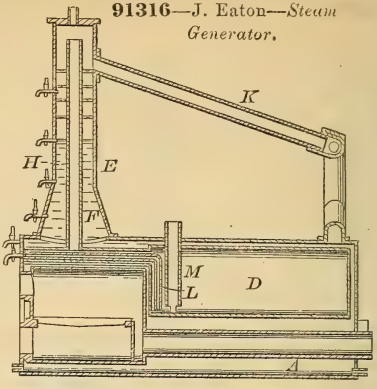
**91314**—W. U. Dudley—*Brush Back.*



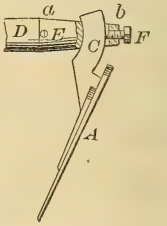

**91315**—J. C. Durborow—*Harvester Rake.*



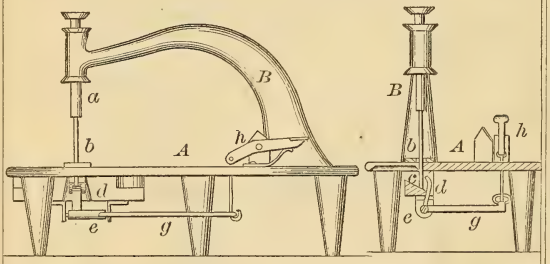

**91316**—J. Eaton—*Steam Generator.*



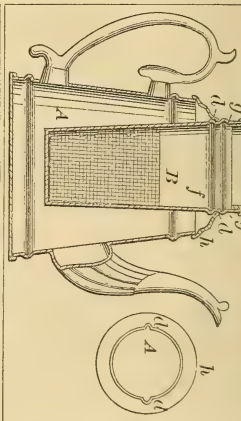

**91317**—Ellis & Albertson—*Hoe and Rake.*



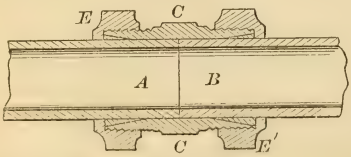

**91318**—M. J. Ferren—*Sewing Machine.*



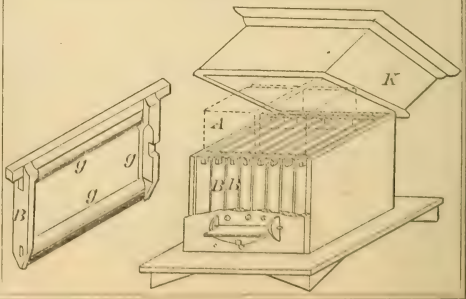

**91320**—J. H. Finch—*Tea and Coffee Pot.*



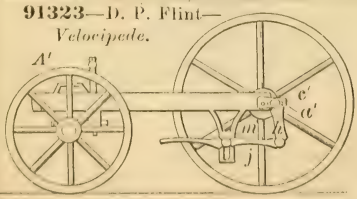

**91319**—J. J Fifield—*Pipe Coupling.*



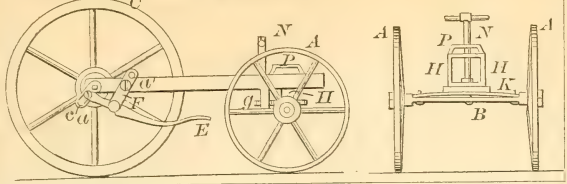

**91321**—J. E. Finley—*Beehive.*



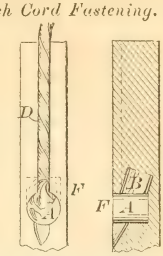

**91323**—D. P. Flint—*Velocipede.*



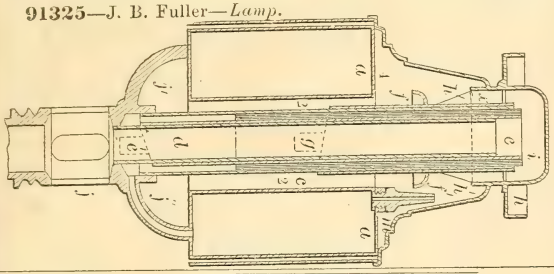
**91322**—D. P. Flint—*Velocipede.*



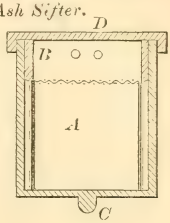

**91326**—J. G. Gabel—*Sash Cord Fastening.*



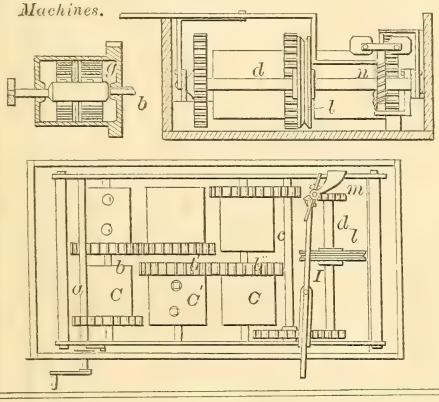

**91325**—J. B. Fuller—*Lamp.*



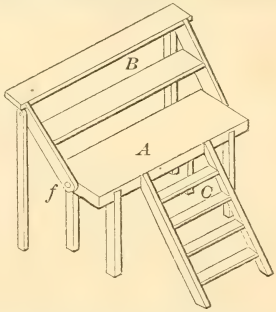
**91329**—B. J. Greely—*Ash Sifter.*



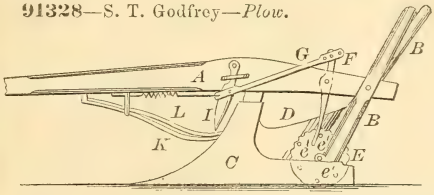

**91327**—Garcin & Adams—*For Driving Sewing Machines.*



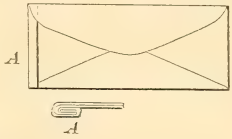

**91330**—A. Greenman—*Fruit Stand.*



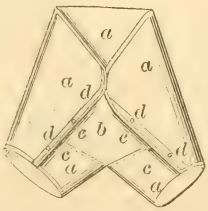

**91328**—S. T. Godfrey—*Plow.*



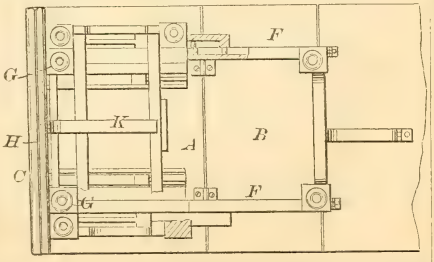

**91331**—G. P. Hachenberg—*Envelope*



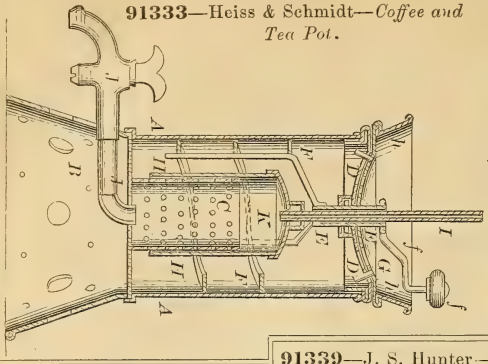

**91334**—J. C. Hempel—*Diaper.*



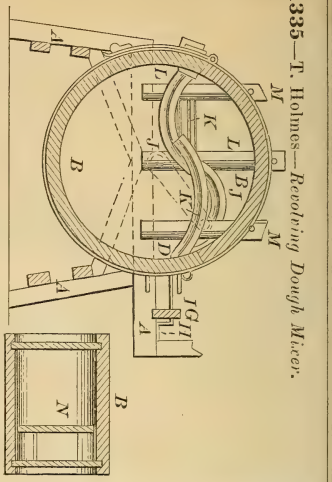

**91332**—F. Hamblin—*Extension Table.*



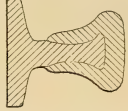
**91333**—Heiss & Schmidt—*Coffee and Tea Pot.*



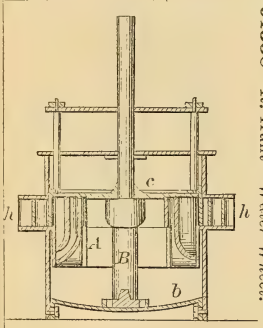
**91335**—T. Holmes—*Revolving Dough Mixer.*



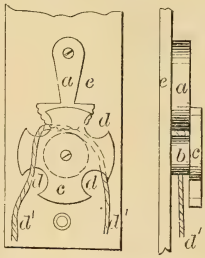
**91339**—J. S. Hunter—*Railway Rail.*



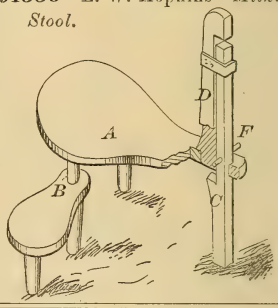
**91338**—R. Hunt—*Water Wheel.*



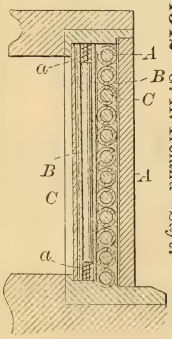
**91340**—C. S. Hutchins—*Line Holder.*



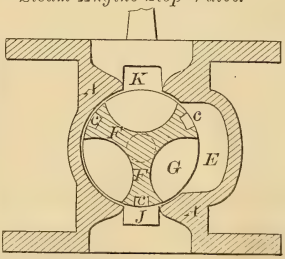
**91336**—E. W. Hopkins—*Milking Stool.*



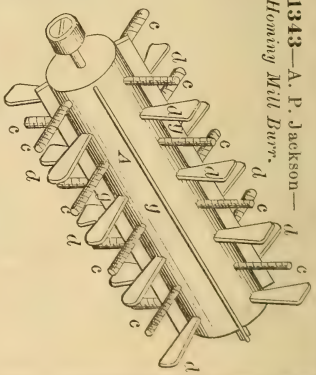
**91342**—G. H. Ireland—*Safe.*



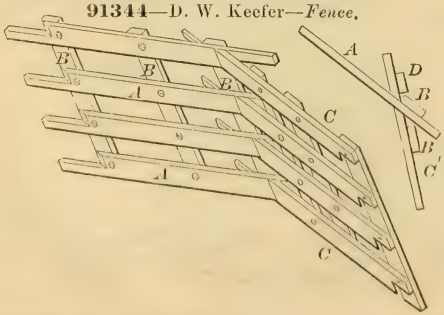
**91337**—W. H. Howland—*Steam Engine Stop Valve.*



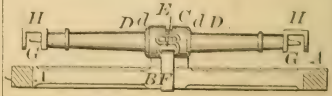
**91343**—A. P. Jackson—*Hominy Mill Burr.*



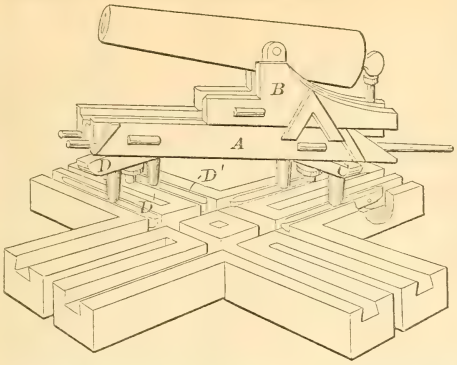
**91344**—D. W. Keefer—*Fence.*



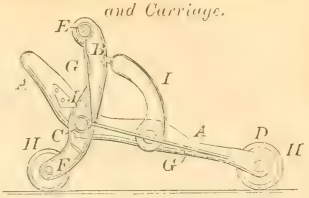
**91346**—S. Kepner—*For Detaching Horses.*



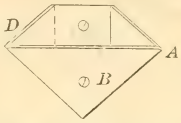
**91345**—J. R. Kelso—*Gun Carriage.*



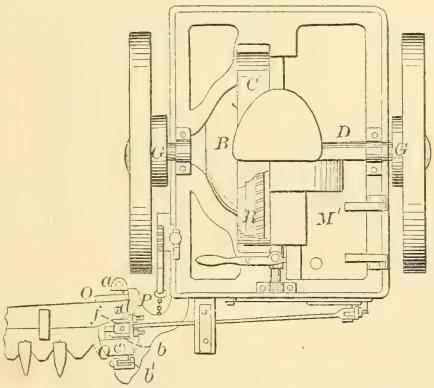

**91350**—J. Lee—*Child's Chair and Carriage.*

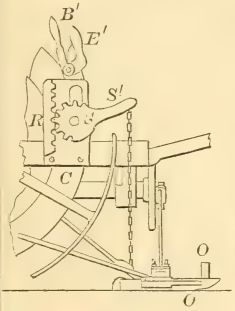


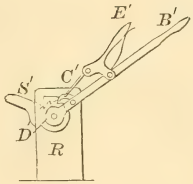

**91351**—J. M. Lemon—*Conveyor "Flight."*



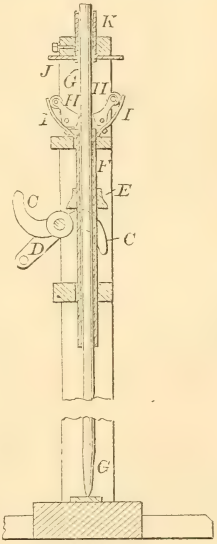

**91347**—J. Kershaw—*Harvester.*



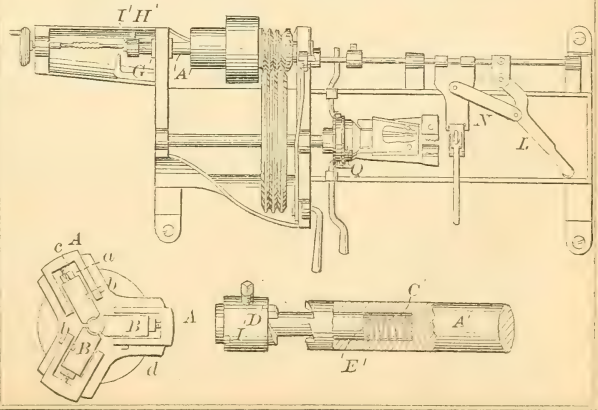



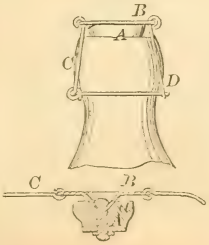

**91352**—S. Lewis—*Rock Drill.*



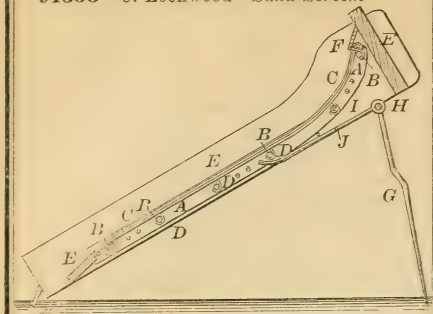

**91348**—J. Killefer—*For Threading Bolts and Nuts.*



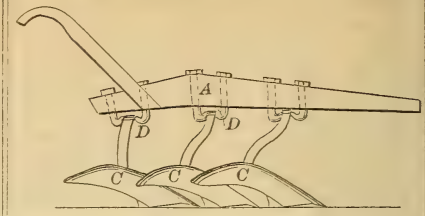

**91349**—F. Kutscher—*Bottle Stopper.*



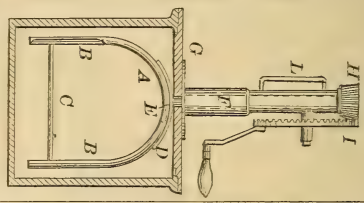
**91353**—C. Lockwood—*Sand Screen.*



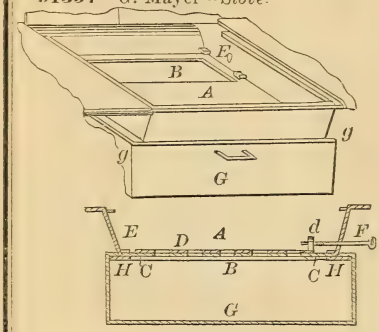

**91354**—J. Long—*Plow.*



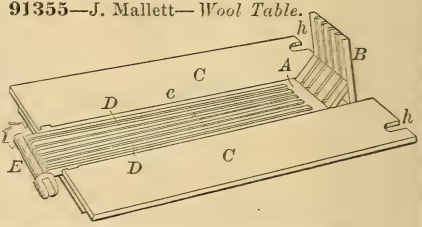

**91360**—J. L. Nettleton—*Churn.*



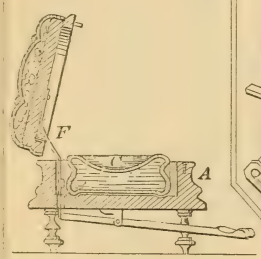

**91357**—G. Mayer—*Stove.*



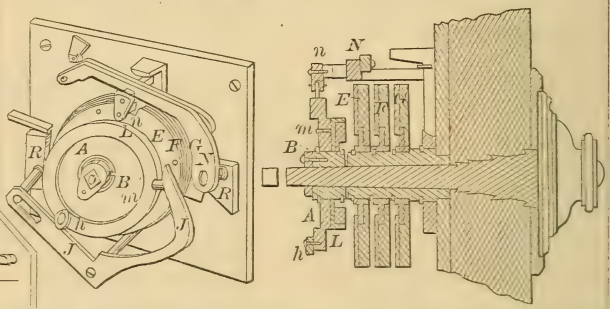

**91355**—J. Mallett—*Wool Table.*



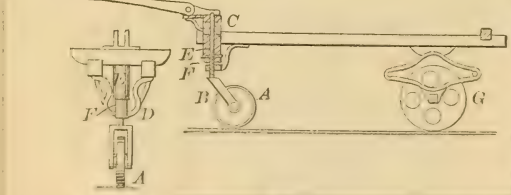

**91356**—C. Marcher—*Spittoon Footstool.*



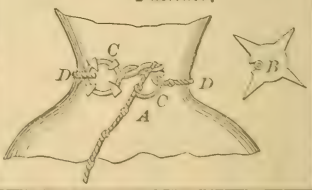

**91359**—J. H. Morse—*Lock.*



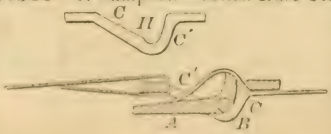

**91358**—J. M. Mayer—*Brick Truck.*



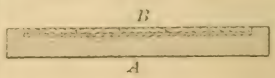

**91362**—S. P. Parmly—*Bag Fastener.*



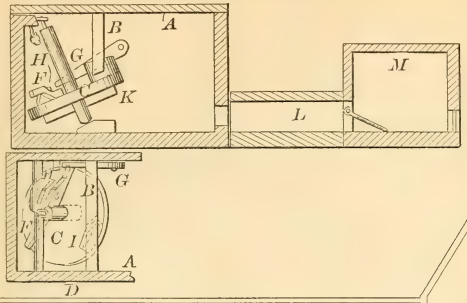
**91361**—T. Campbell—*Cotton Bale Tie.*



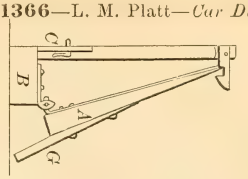

**91364**—S. H. Pearce—*Mosaic Floor Covering.*



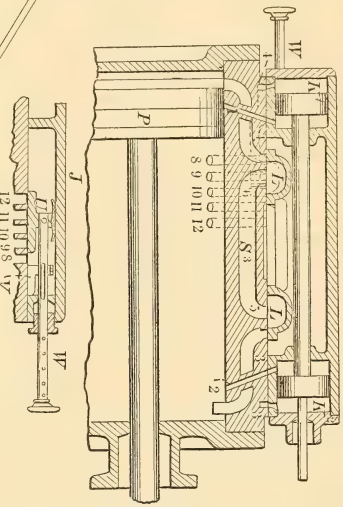
**91363**—H. Pattison—*Animal Trap.*



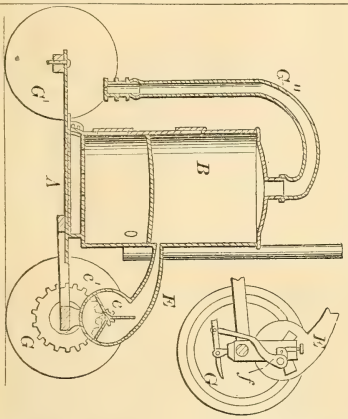

**91366**—L. M. Platt—*Car Duster.*



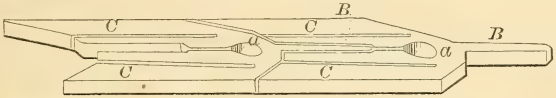

**91368**—F. Rochow—*Steam Engine Valve and Opening.*



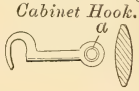

**91365**—M. Perl—*For Destroying Worms on Cotton Plants.*



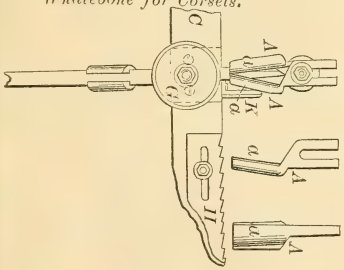

**91367**—J. C. Richardson—*Fork Blank.*



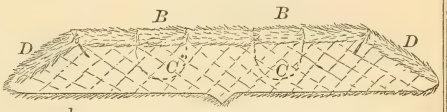

**91369**—J. B. Sargent—*Cabinet Hook.*



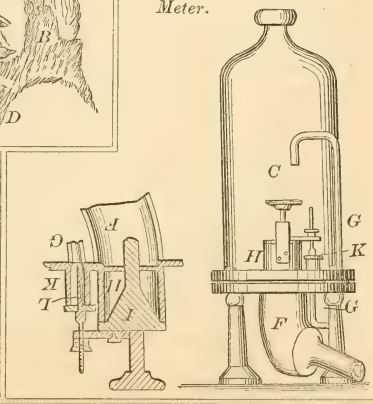

**91370**—J. A. Sevey—*For Rounding Whalebone for Corsets.*



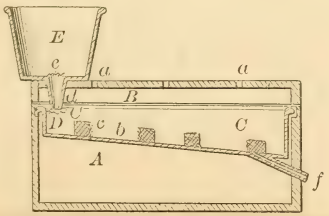

**91371**—R. M. Seldis—*Fur Collar.*



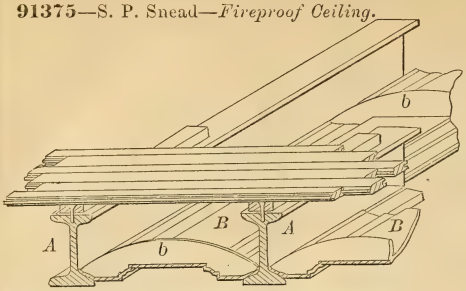
**91374**—J. P. Smith—*Liquid Meter.*



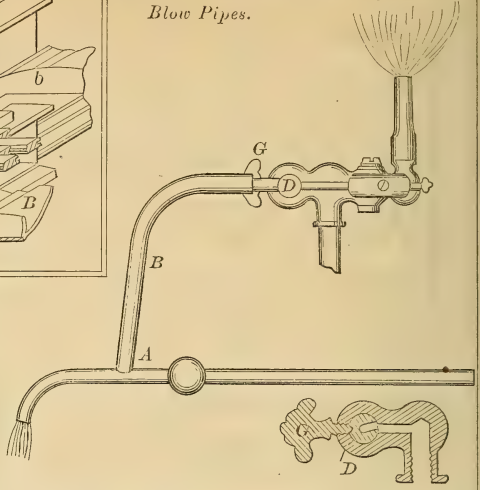

**91372**—J. C. Sherwood—*Milk Cooler.*



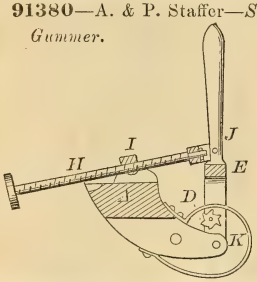
**91375**—S. P. Snead—*Fireproof Ceiling.*



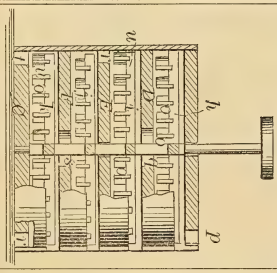

**91376**—J. H. Snow—*Gas Regulator for Blow Pipes.*



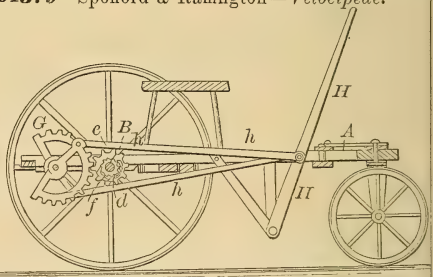

**91380**—A. & P. Staffer—*Saw Gummer.*



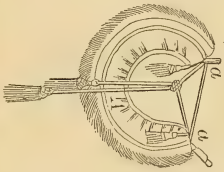

**91381**—A. & P. Staffer—*Flour Cooler.*



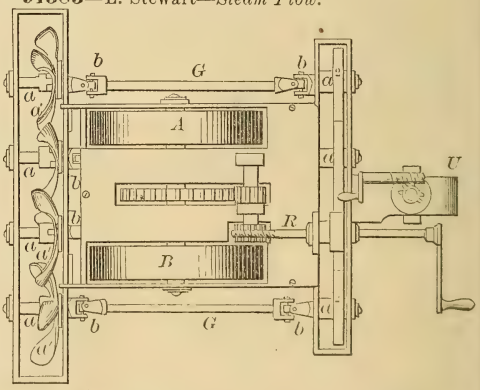

**91379**—Spofford & Raffington—*Velocipede.*

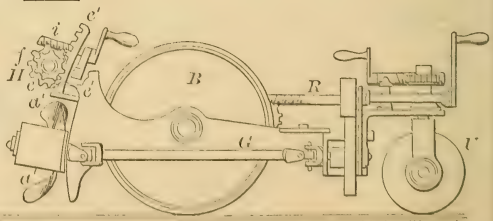



**91382**—Stern & Seldis—*Muff.*

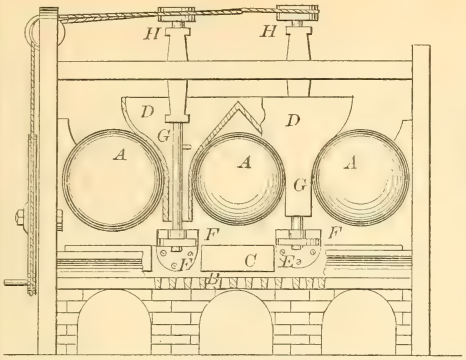


**91383**—L. Stewart—*Steam Plow.*

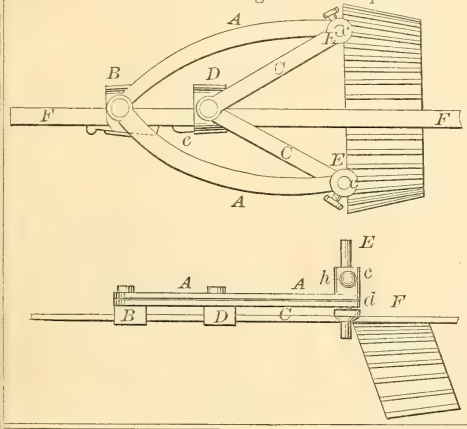


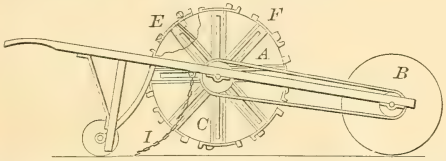
**91384**—S. Sykes—*Sawdust Feeder for Furnaces.*



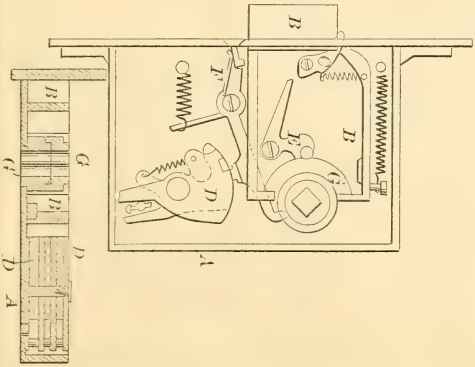

**91385**—M. J. Trowbridge—*Centre Square.*



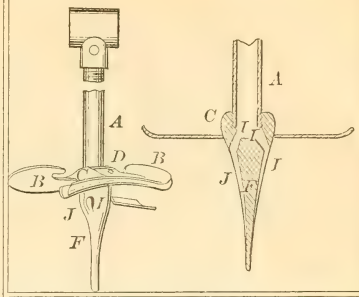

**91386**—R. B. Tunstall—*Seeder.*



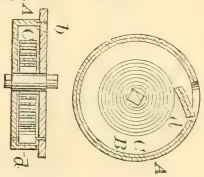

**91394**—A. F. Whiting—*Knob Latch.*



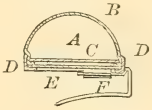

**91387**—A. Vaughan—*Post Auger.*



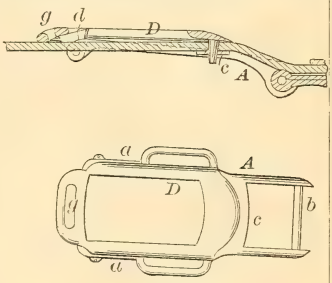

**91388**—A. Wadsworth—*Watch.*



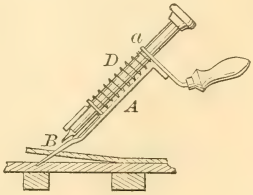

**91389**—J. H. Weeden—*Head Rest for Pews.*



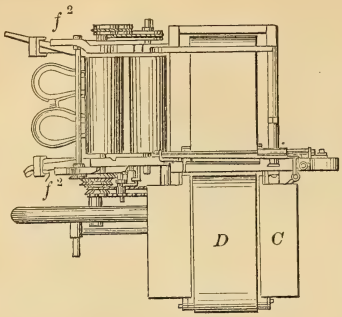

**91390**—J. Welker—*Trace Buckle.*

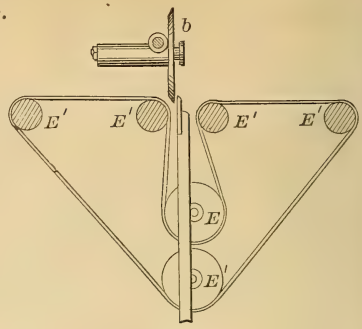


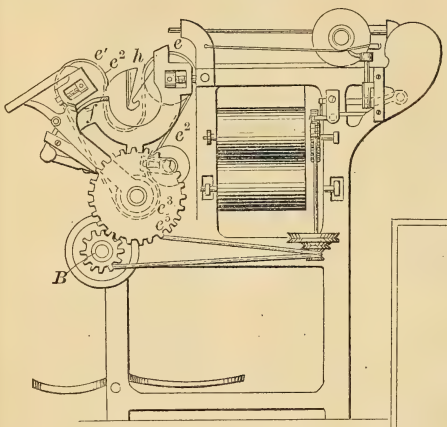

**91392**—E. S. Wheeler—*Carpet Stretcher and Nailer.*

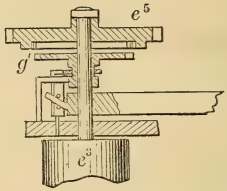


**91391**—J. Wettstein—*Tobacco Rolling Machine.*

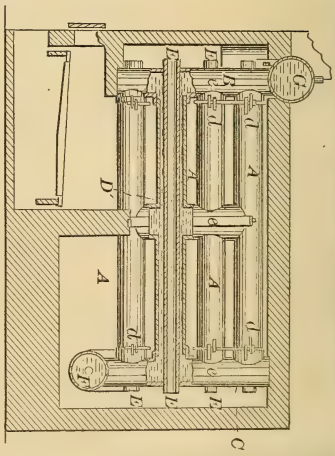


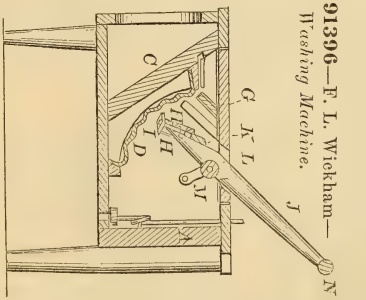



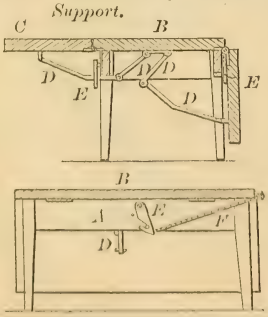

**91395**—H. Whittingham—*Steam Generator.*



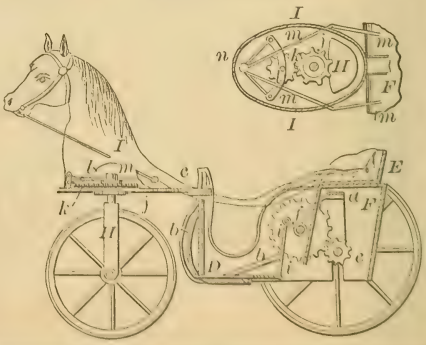

**91396**—F. L. Wickham—*Washing Machine.*



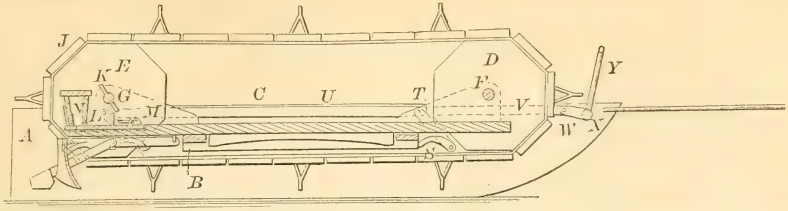

**91397**—C. P. Wing—*Table Leaf Support.*



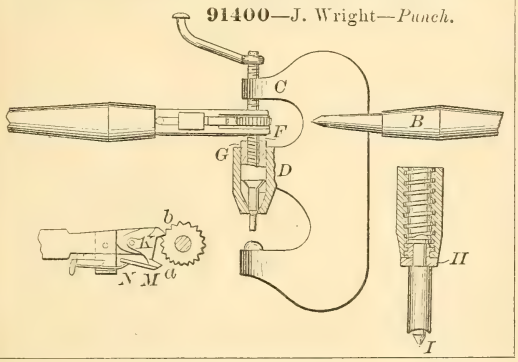

**91398**—J. C. Wirtz—*Velocipede.*



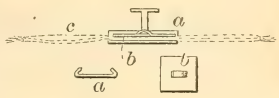
**91399**—G. H. Wood—*Corn Planter.*



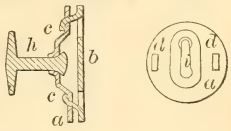

**91400**—J. Wright—*Punch.*



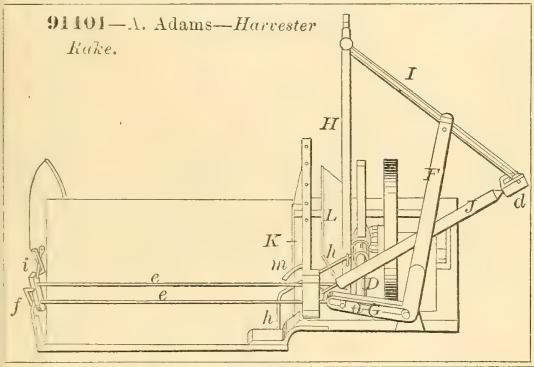

**91405**—J. Bachelder—*Necktie.*



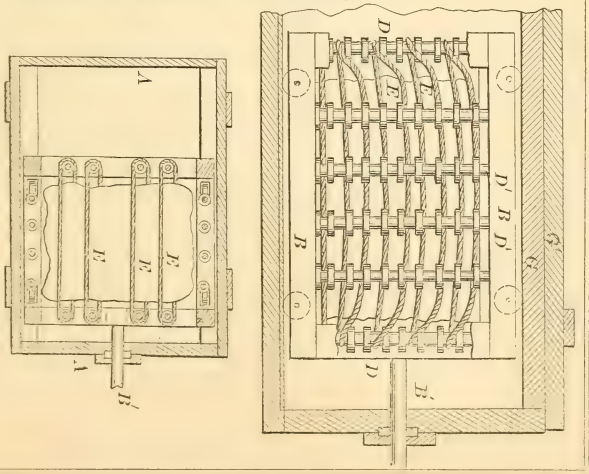

**91406**—J. Bachelder—*Necktie Fastening.*



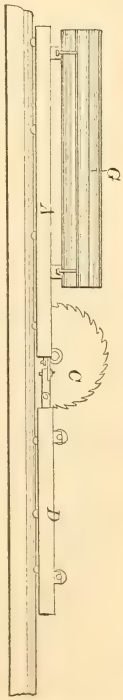

**91401**—A. Adams—*Harvester Rake.*



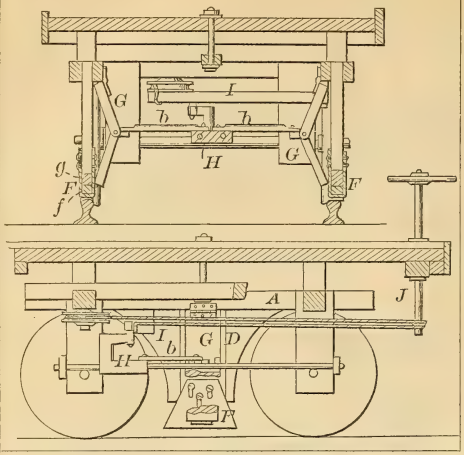

**91402**—H. W. Adams—*For Tanning Hides.*



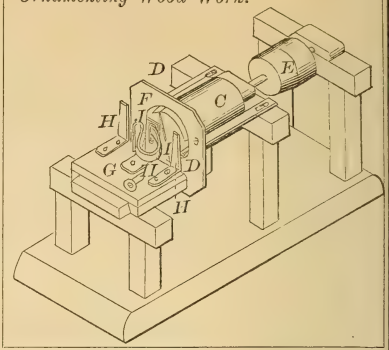

**91403**—J. H. Adams—*Circular Saw Mill.*



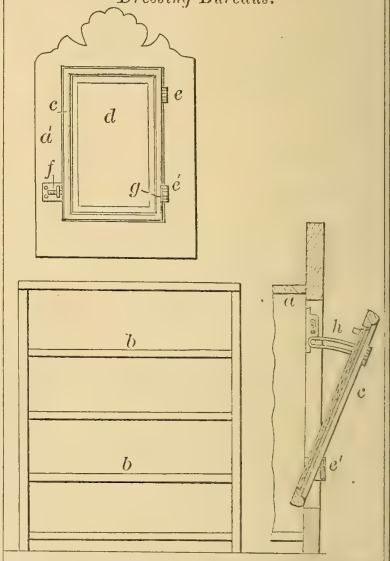
**91404**—A. M. Allen—*Car Brake.*



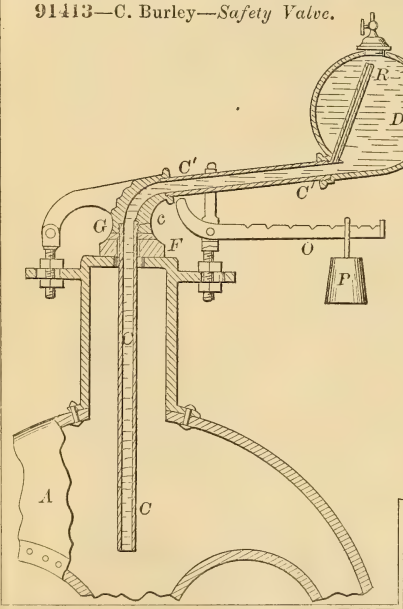

**91410**—M. T. Boult—*For Carving and Ornamenting Wood Work.*



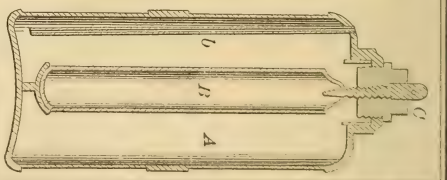

**91409**—W. E. Beames—*Cabinet for Dressing Bureaus.*



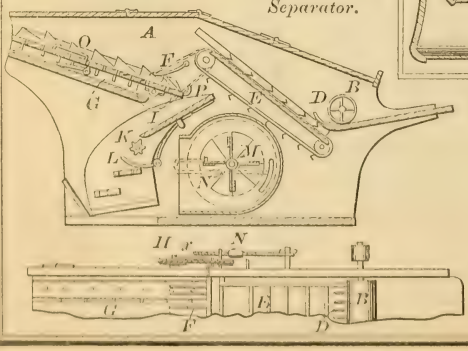

**91413**—C. Burley—*Safety Valve.*



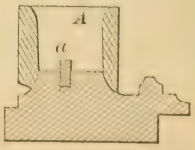

**91411**—J. F. Boynton—*Fire Extinguisher.*



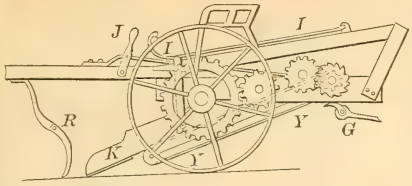

**91412**—A. & H. K. Burkholder—*Grain Separator.*



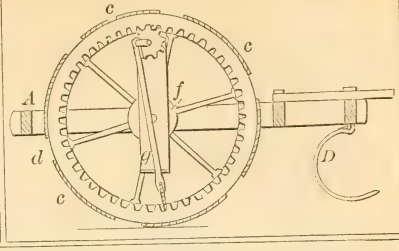

**91414**—Campbell & Miller—*Glueing Hopper.*



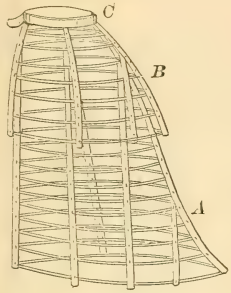
**91415**—H. Carrier—*Potato Digger.*



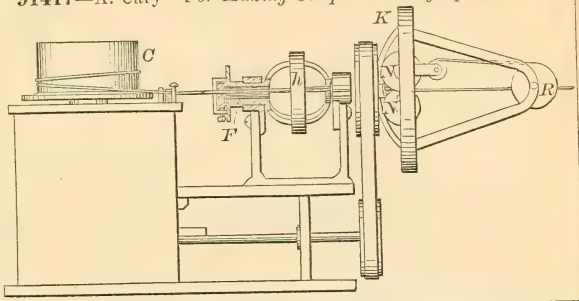

**91420**—M. Clark—*Corn Stalk Cutter.*



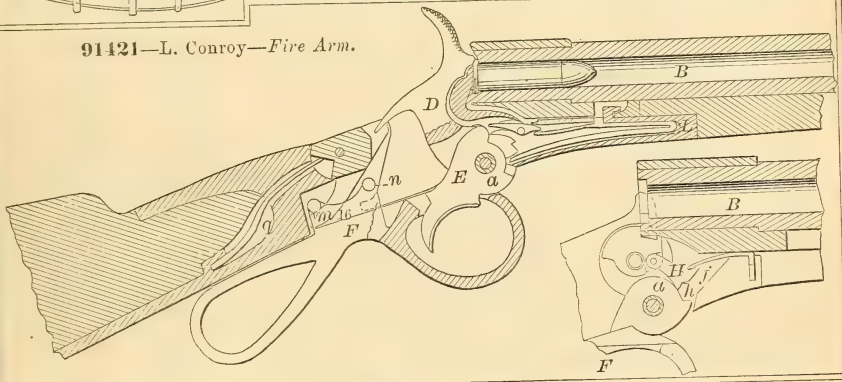

**91418**—J. F. Chase—*Hoop Skirt.*



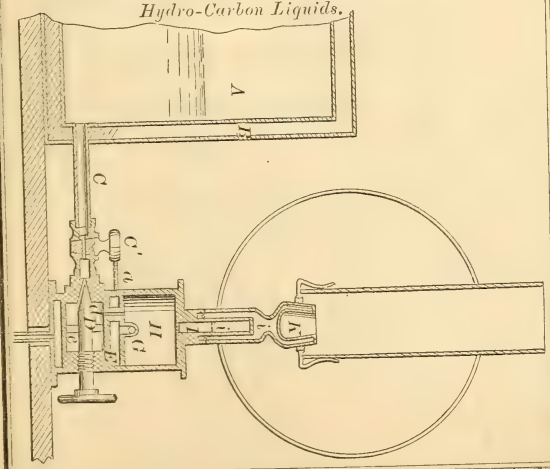

**91417**—A. Cary—*For Making Compound Telegraph Wire.*




**91421**—L. Conroy—*Fire Arm.*

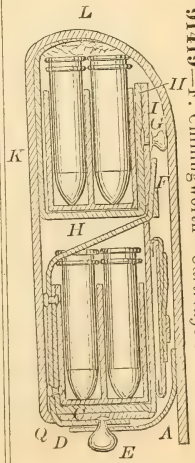



**91423**—E. H. Covel—*For Making Light from Hydro-Carbon Liquids.*



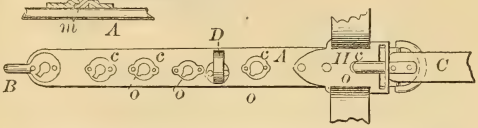

**91416**—A. Cary—*Telegraph Wire.*

**91419**—F. Chillingworth—*Cartridge Box.*

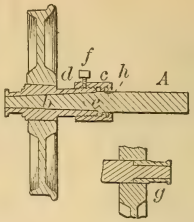


**91422**—H. T. Cooper—*Curtain Fixture.*

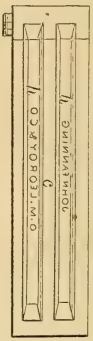
**91425**—J. S. H. Dickinson—*Harness Tug.*



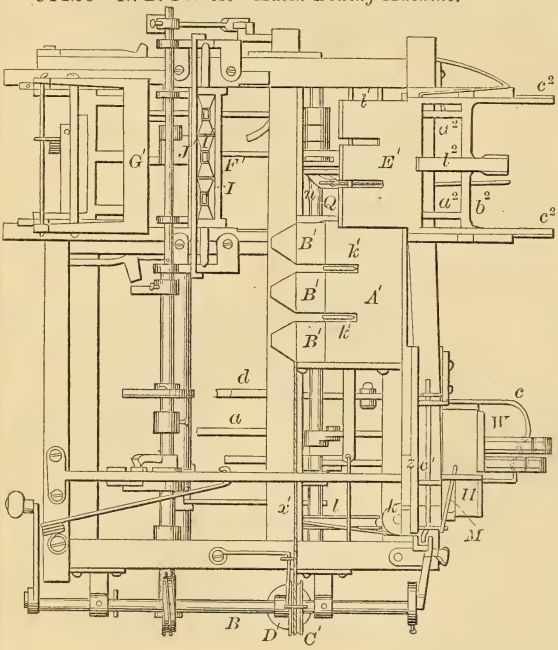
**91424**—D. M. Cummings—*Car Axle.*

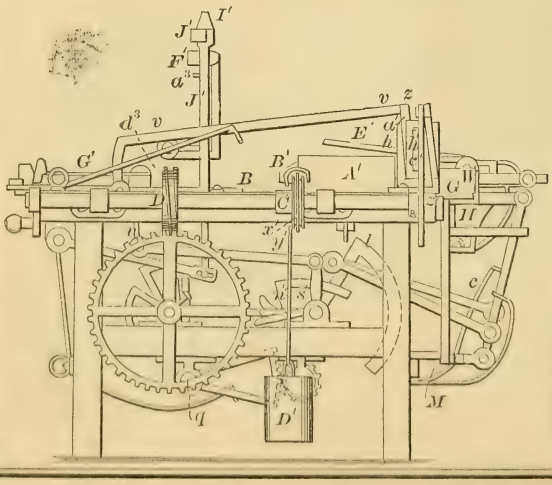


**91426**—J. Fanning—*Mould for Casting Solder.*

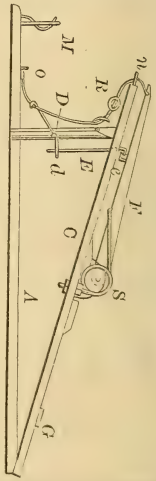


**91429**—N. B. Forrest—*Match Boxing Machine.*

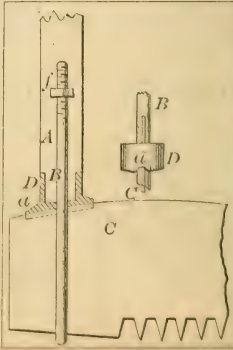




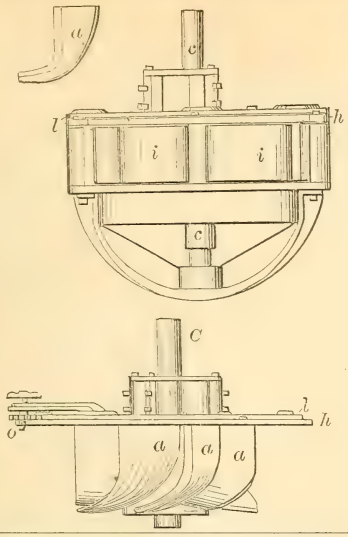
**91427**—A. C. Flanders—*Animal Trap.*



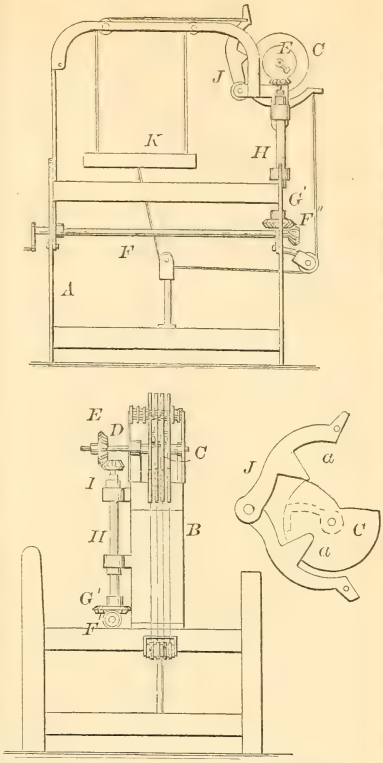
**91428**—J. Flint—*Saw Handle.*



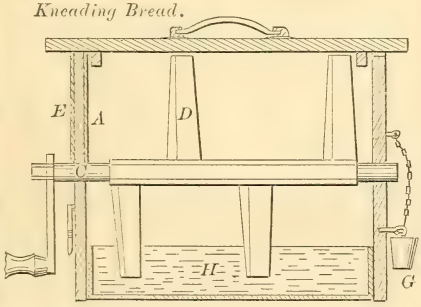
**91430**—T. M. Fuller—*Water Wheel.*



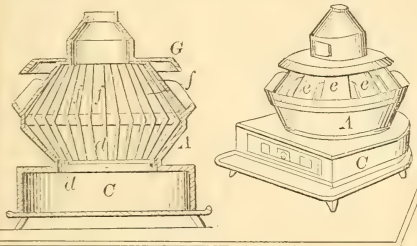

**91431**—J. F. Gebhart—*Loom.*



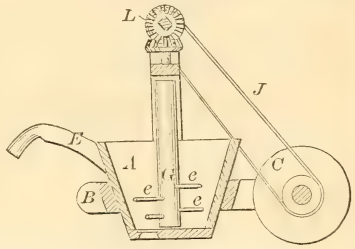

**91432**—A. G. Good—*For Raising and Kneading Bread.*



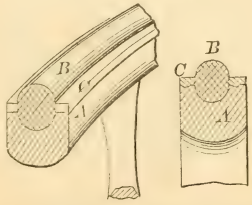

**91433**—C. H. Goss—*Laundry Heater.*



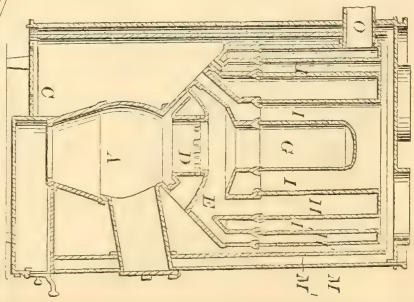

**91434**—J. D. Coxwell—*Guano Distributor.*



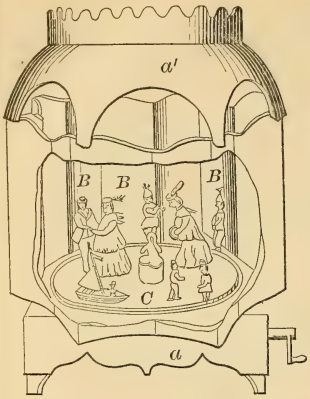

**91435**—J. A. Green—*Attaching Rubber Tires to Wheels.*



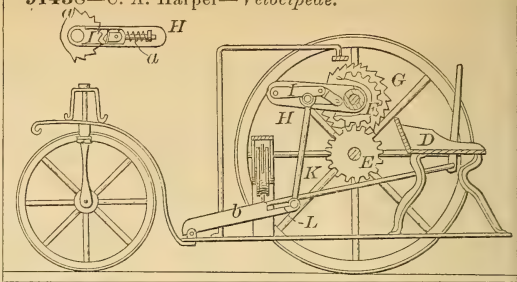

**91436**—D. Gusweiler—*Hot Air Furnace.*



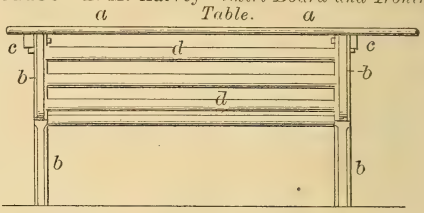
**91437**—C. C. Hall—*Miniature Rink.*



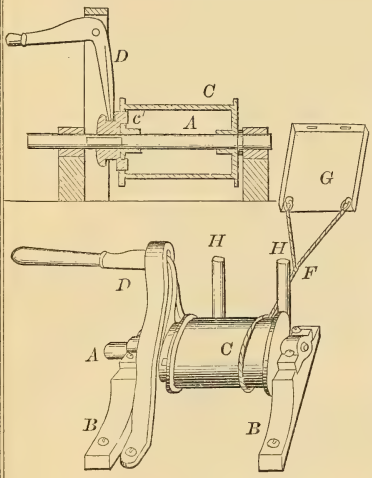

**91438**—C. A. Harper—*Velocipede.*




**91439**—L. M. Harvey—*Skirt Board and Ironing Table.*

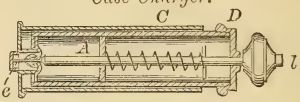



**91440**—T. D. Hawley—*For Shoveling Grain.*

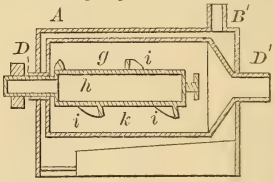



**91441**—C. W. Hill—*Curtain Cornice.*

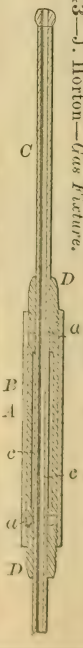
**91442**—A. C. Hobbs—*Cartridge Case Charger.*



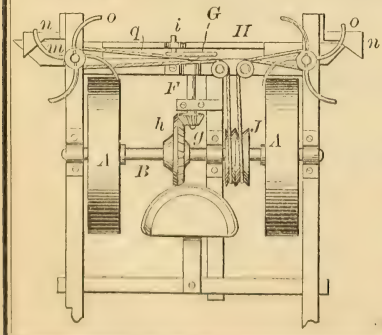

**91448**—J. J. Johnston—*For Distilling Hydro-Carbon Oils.*

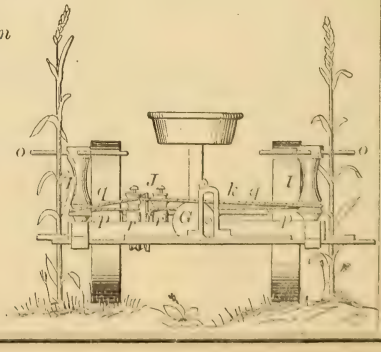



**91443**—J. Horton—*Gas Fixture.*

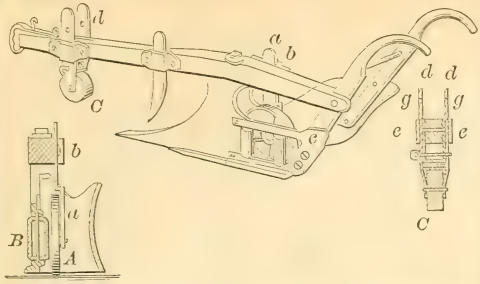



**91444**—W. B. Hubard—*Corn Harvester.*

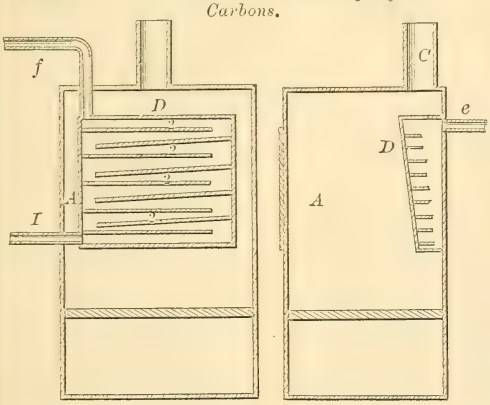


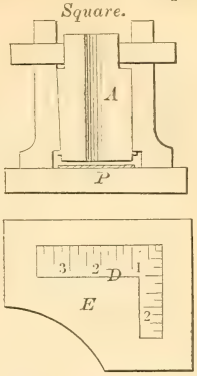
**91445**—L. Hunt—*Plow.*



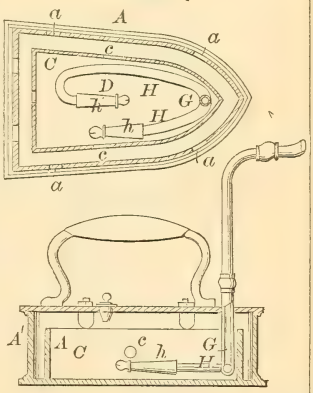

**91447**—J. J. Johnston—*For Distilling Hydro-Carbons.*



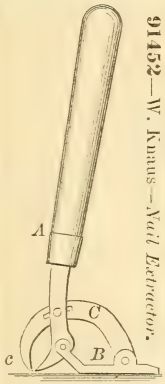

**91449**—H. K. Jones—*Carpenters' Square.*



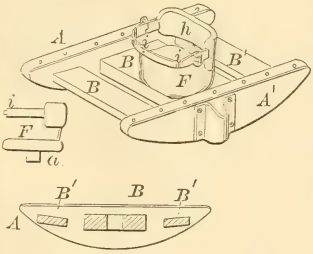

**91450**—A. J. Kennedy—*Sad Iron Heater.*



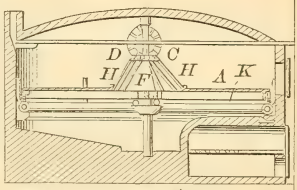

**91452**—W. Knaus—*Nail Extractor.*

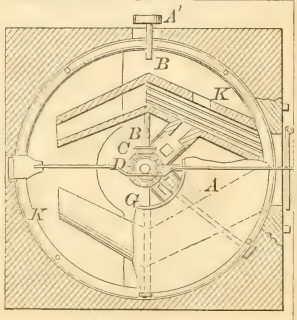



**91453**—G. Knell—*Rocker, Sled and Swing.*

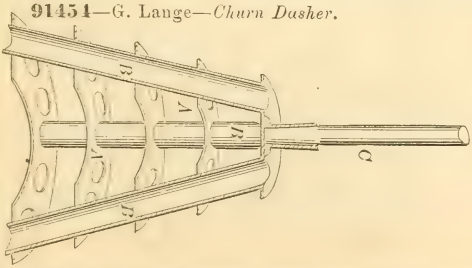



**91451**—D. A. Kennedy—*Oven.*

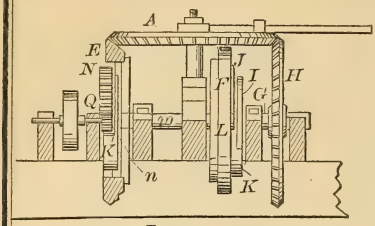


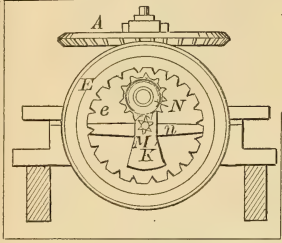




**91454**—G. Lange—*Churn Dasher.*

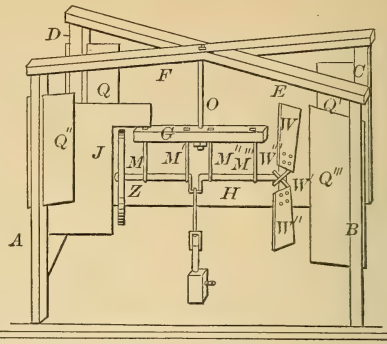


**91456**—W. Lauver—*Horse Power.*

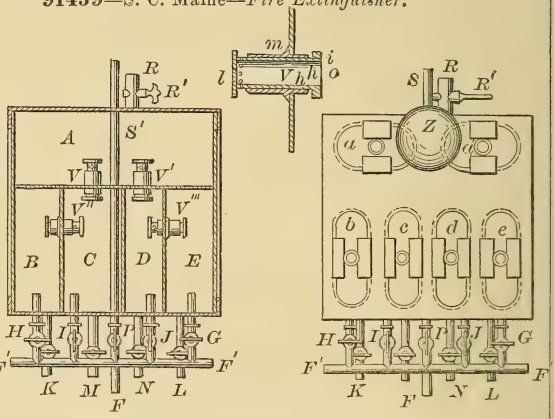


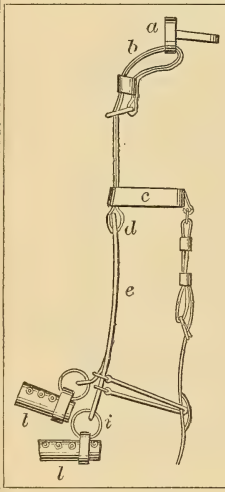

**91457**—T. S. Lines—*Wind Wheel.*



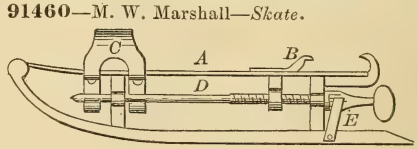

**91459**—S. C. Maine—*Fire Extinguisher.*



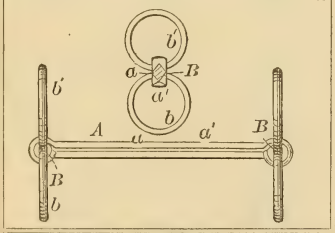

**91462**—A. P. Mason—*Horse Fetter.*



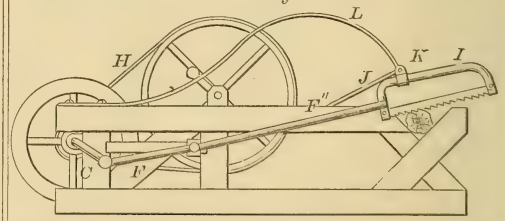

**91460**—M. W. Marshall—*Skate.*



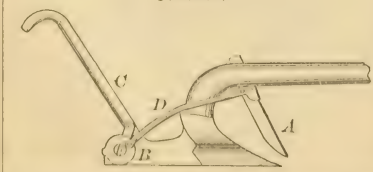

**91463**—A. P. Mason—*Bridle Bit.*



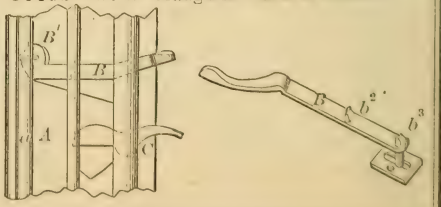

**91461**—W. Martin—*Sawing Machine.*



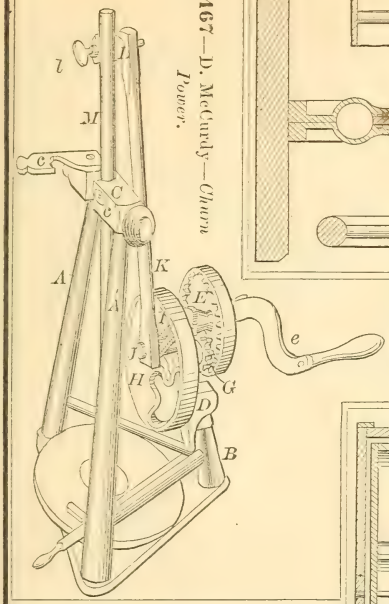

**91464**—A. B. Mattoon—*Coulter Cleaner.*



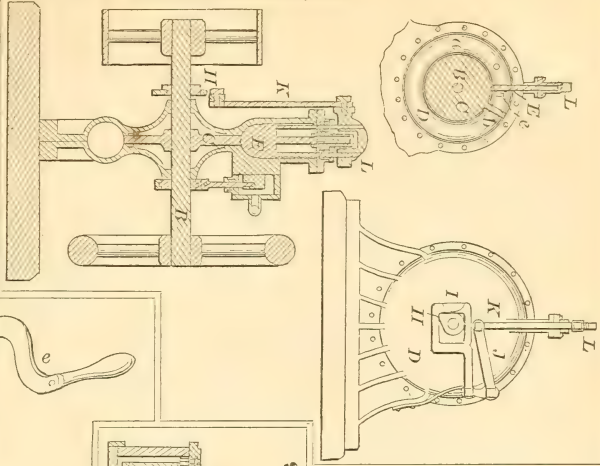

**91465**—W. W. Maughlin—*Sash Fastener.*



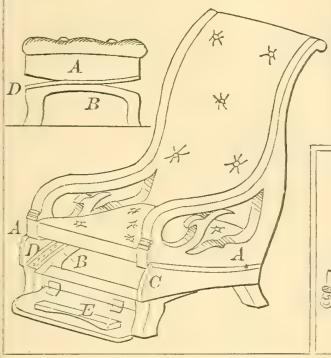
**91467**—D. McCurdy—*Churn Power.*



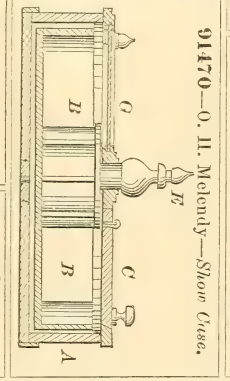
**91468**—T. McEwen—*Steam Engine.*



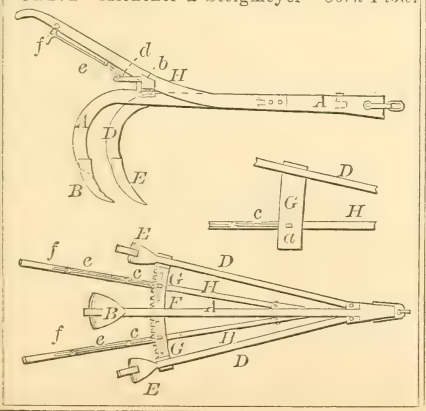
**91469**—A. K. McMurray—*Chair.*



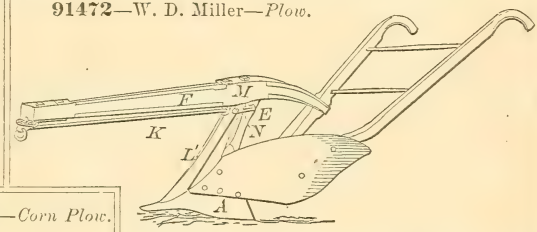
**91470**—O. H. Melendy—*Show Case.*



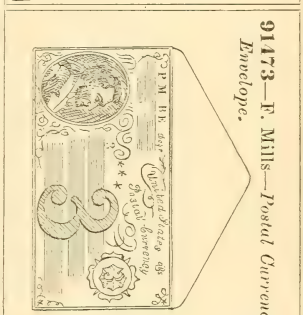
**91471**—Michener & Steigmeyer—*Corn Plow.*



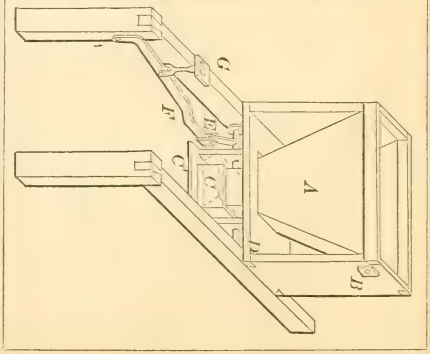
**91472**—W. D. Miller—*Plow.*



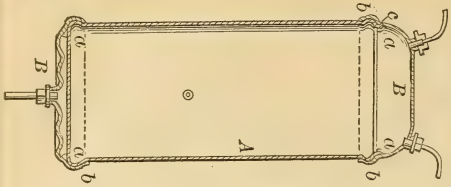
**91473**—F. Mills—*Postal Currency Envelope.*



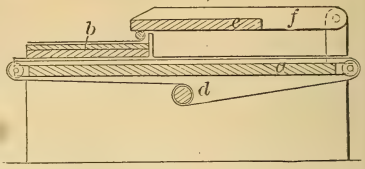
**91474**—Moule & Girdlestone—*Water Closet.*



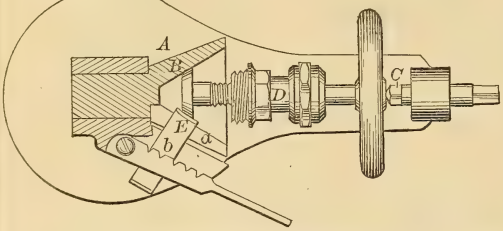
**91475**—A. Müller—*Water Boiler.*



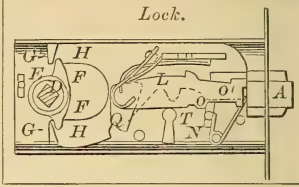

**91476**—Murphy & Hook—*For Making Rubber Hose, &c.*



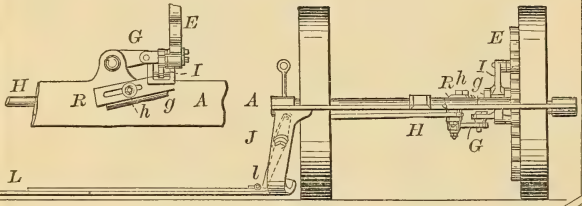

**91478**—I. Nutt—*For Refitting Conical Valves.*



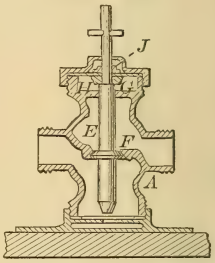

**91479**—A. Oehsner—*Latch and Lock.*

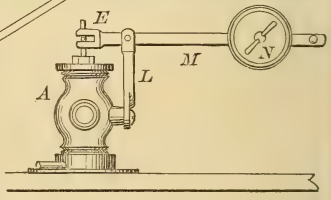



**91482**—G. Pye—*Harvester.*

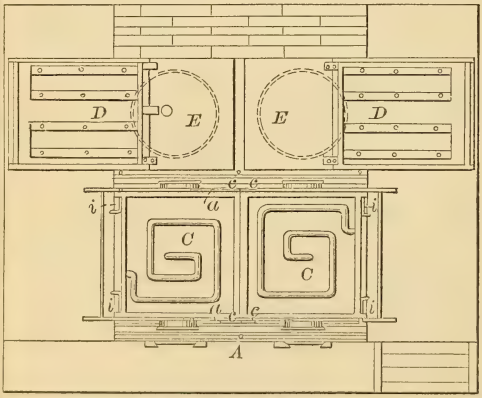


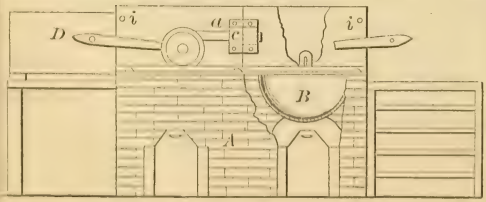

**91483**—P. Regitz—*Hopper Cock.*



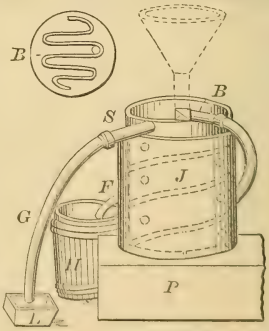




**91485**—D. Reynolds—*Evaporating Apparatus.*

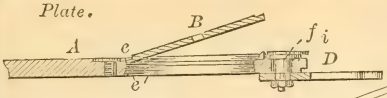


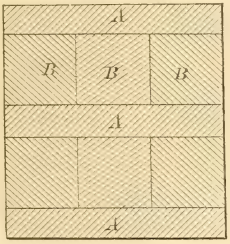

**91481**—M. F. Potter—*Milk Cooler.*



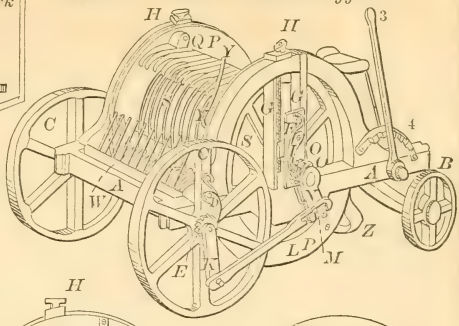
**91484**—G. Rehfuss—*Sewing Machine Work Plate.*

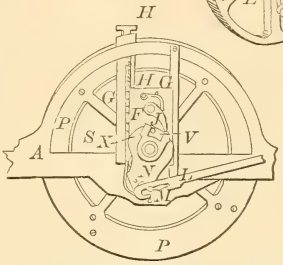


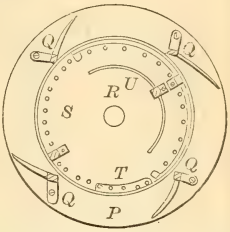

**91486**—P. Roberts—*Constructing Piles for Forming Axles, &c.*



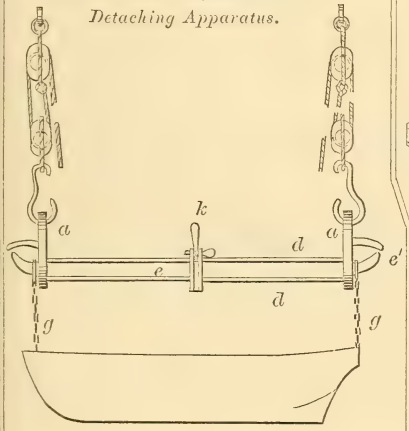

**91487**—J. Roberts—*Potato Digger.*



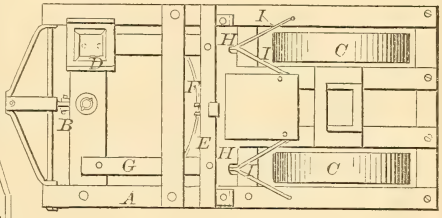



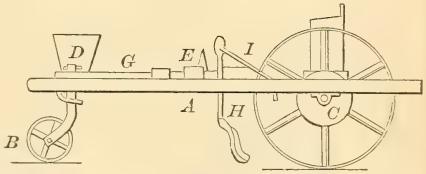




**91488**—W. S. Ryerson—*Boat Detaching Apparatus.*

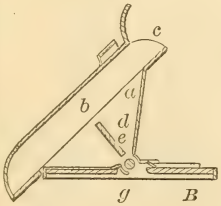



**91489**—H. C. Shafer—*Corn Planter.*

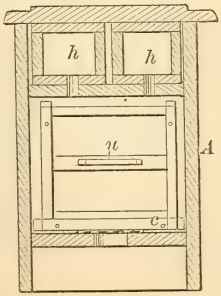


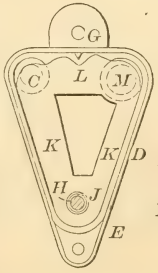

**91491**—De W. Stevens—*Ash Sifter.*

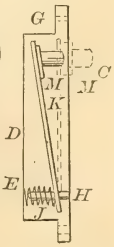



**91492**—S. Stevens—*Beehive.*

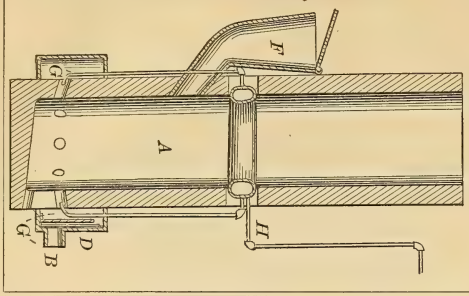



**91490**—C. Sholl—*Sash Holder.*

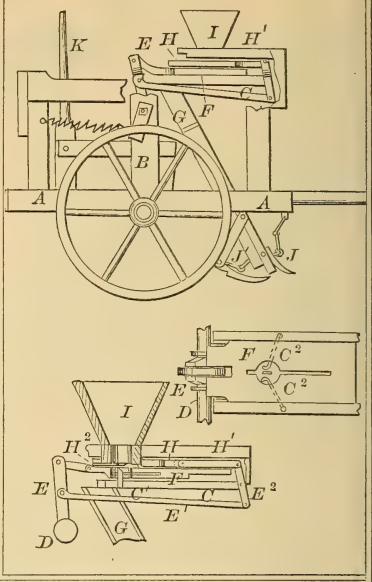


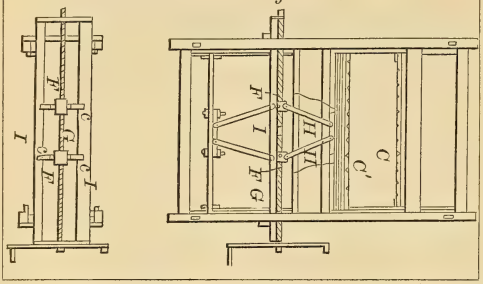
**91493**—C. H. Swain—*Smelting Furnace.*



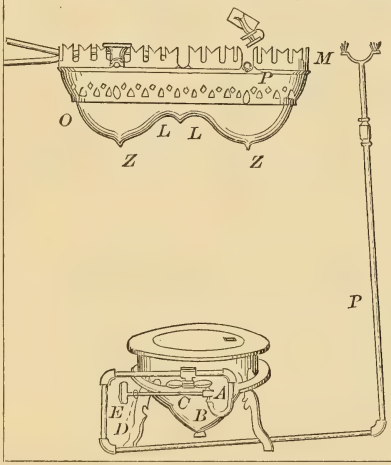

**91494**—A. J. Taylor—*Potato and Corn Planter.*



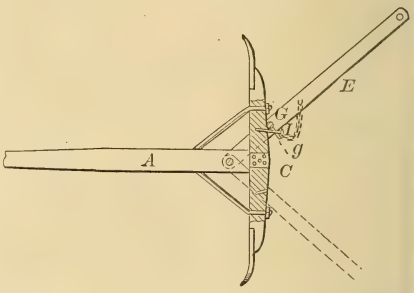

**91495**—H. H. Tift—*Baling Press.*



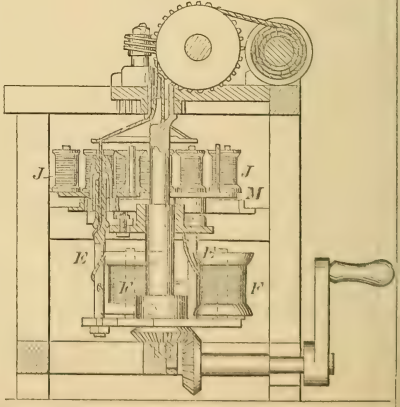

**91496**—L. & W. H. Trowbridge—*Gas Stove.*



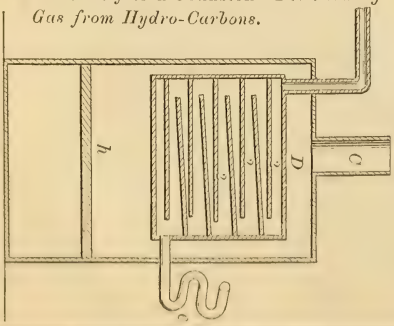

**91497**—S. G. Tufts—*Cultivator.*



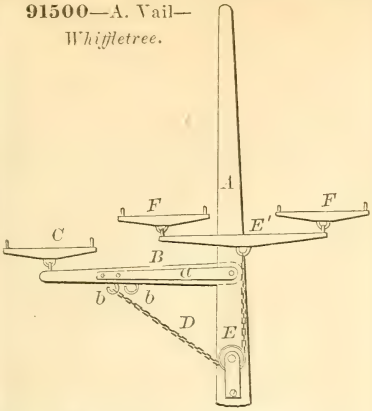

**91498**—J. Turner—*For Making Covered Cord.*



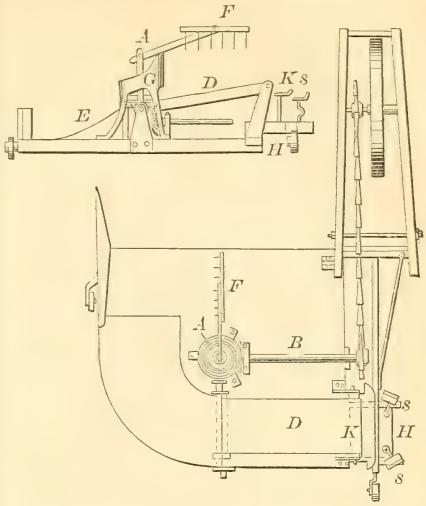

**91499**—Tyler & Johnston—*For Making Gas from Hydro-Carbons.*



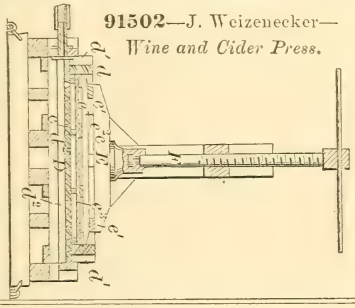
**91500**—A. Vail—*Whiffletree.*



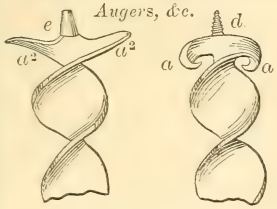

**91501**—Wallis & Huttmann—*Harvester.*



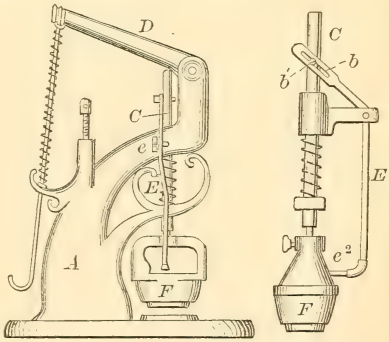

**91502**—J. Weizenecker—*Wine and Cider Press.*



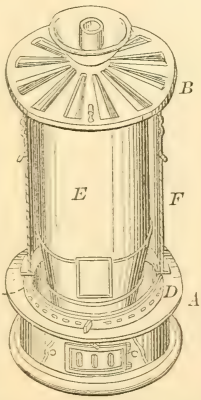
**91503**—C Whitehouse—*For Making Augers, &c.*



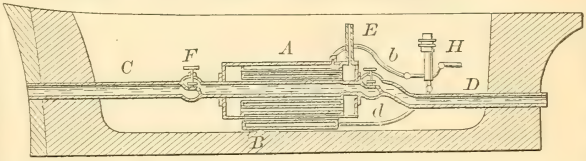

**91508**—J. H. Bean—*Heel Cutter.*




**91509**—C. N. Bennett—*Coal Stove.*

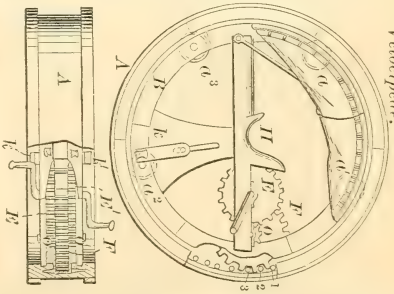



**91506**—B. C. Atkinson—*Steam Condenser.*

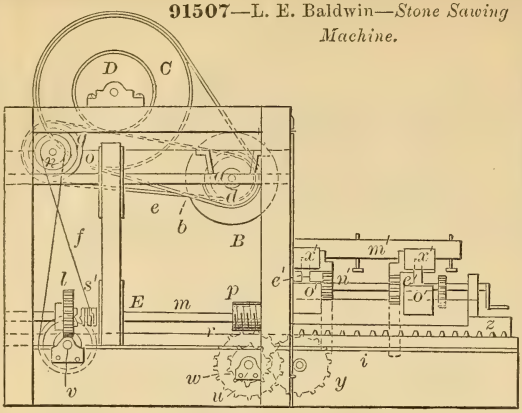


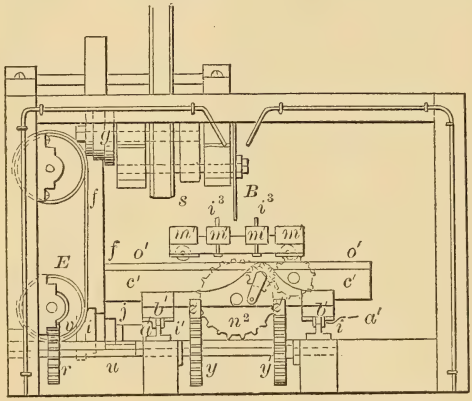

**91505**—J. R. Wood—*Butchers' Steel.*

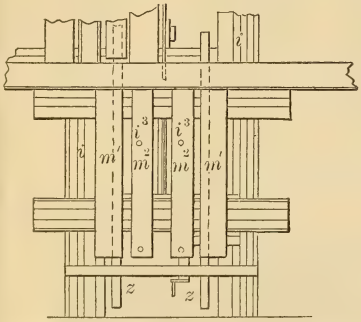
**91510**—G. Beigner—*Velocipede.*



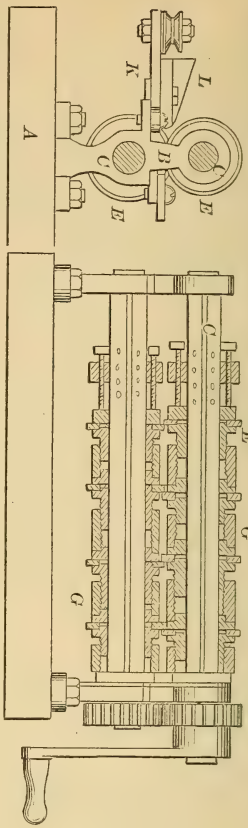
**91507**—L. E. Baldwin—*Stone Sawing Machine.*



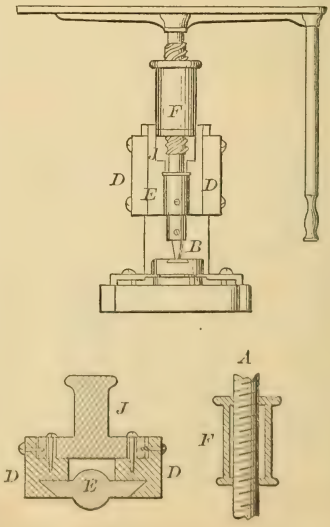



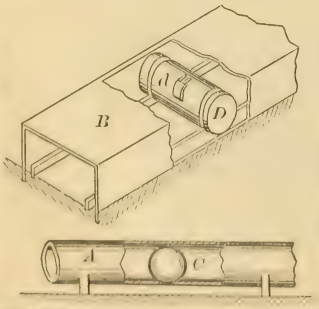

**91512**—R. Briggs—*For Shearing Metals.*



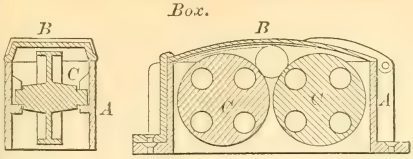

**91511**—Blundell & Williams—*Screw Press.*



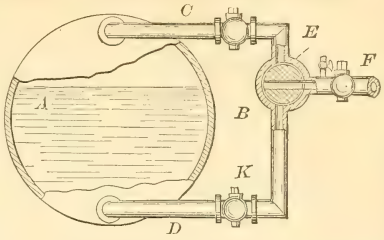

**91513**—A. Brisbane—*Pneumatic Tube for Transporting Goods.*



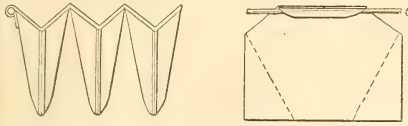
**91514**—T. W. Brown—*Grindstone Journal Box.*



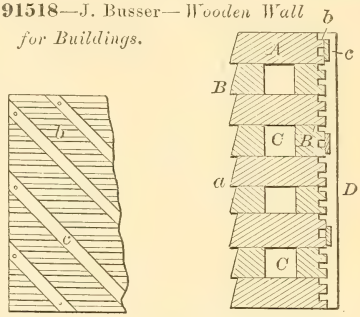

**91515**—H. J. Brunner—*Boiler Feeder.*



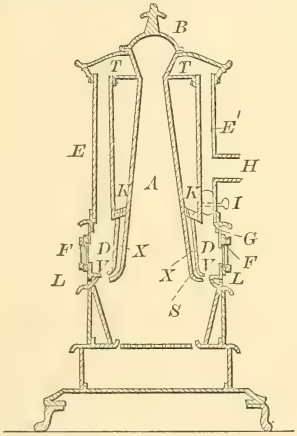

**91516**—A. H. Bryant—*Egg Carrier.*



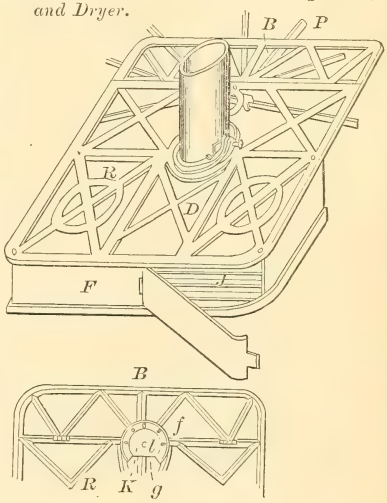

**91518**—J. Busser—*Wooden Wall for Buildings.*



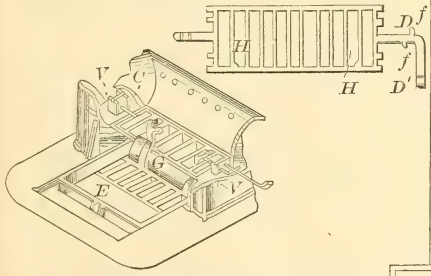

**91517**—Bush & Richards—*Stove.*

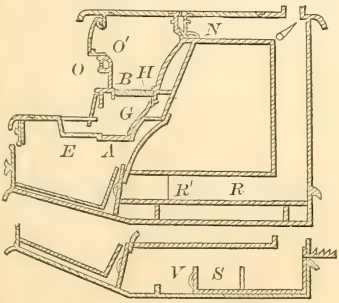



**91519**—W. E. Canedy—*Stove Pipe Shelf and Dryer.*

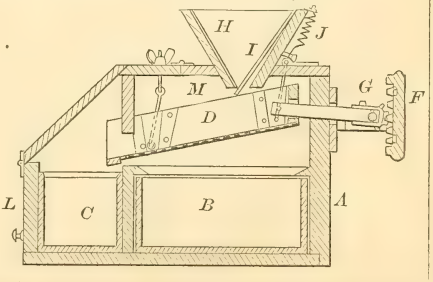


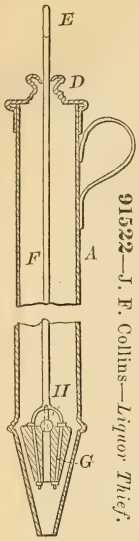

**91520**—Chamberlain & Crowley—*Stove.*



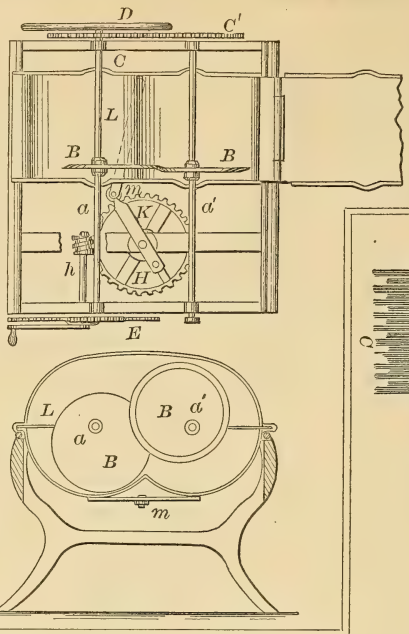

**91521**—J. Chisholm—*Ash Sifter.*



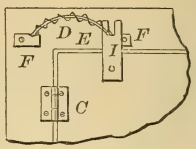



**91522**—J. F. Collins—*Liquor Thief.*

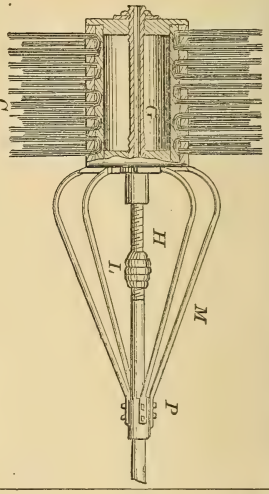
**91526**—J. G. Divoll—*Meat Cutting Machine.*



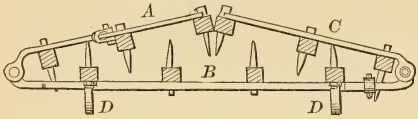

**91528**—S. Elliott—*Door Spring.*



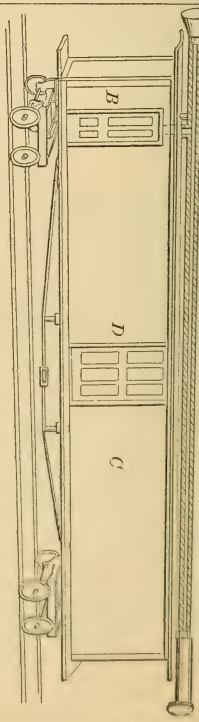

**91523**—P. H. Coyle—*Steam Generator Flue Brush.*



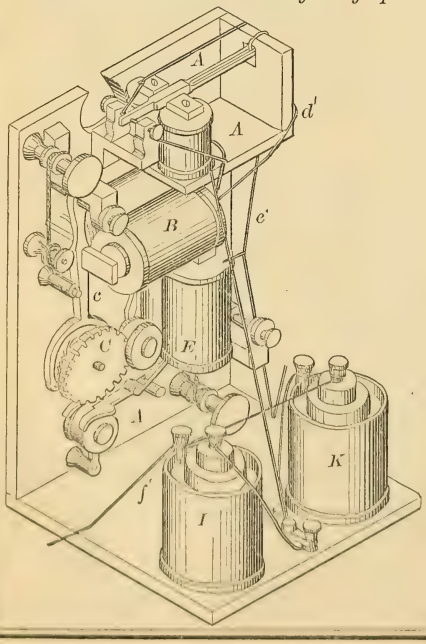

**91525**—I. Crum—*Harrow.*



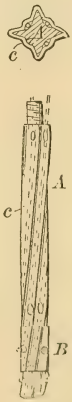

**91524**—A. C. Crary—*For Warning Railroad Cars and other Purposes.*



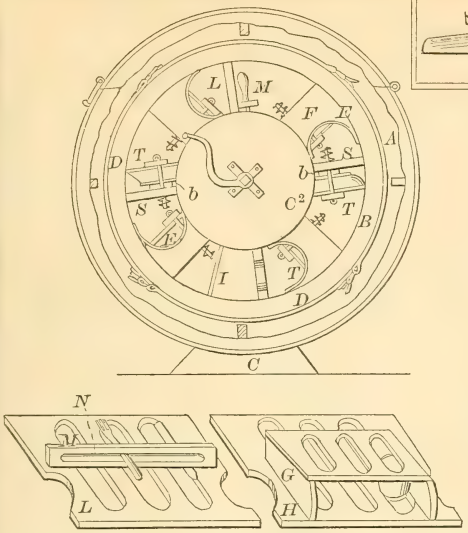

**91527**—T. A. Edison—*Printing Telegraph.*




**91530**—H. W. Farley—*Lightning Rod.*

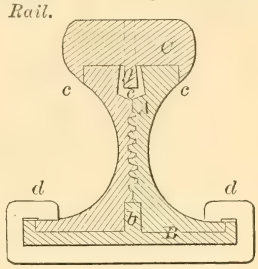


**91529**—W. H. Emerson—*Dish Washer.*

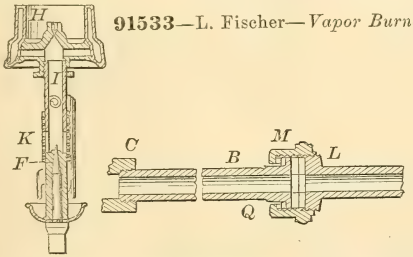



**91531**—M. Feigel—*Mortising Chisel.*

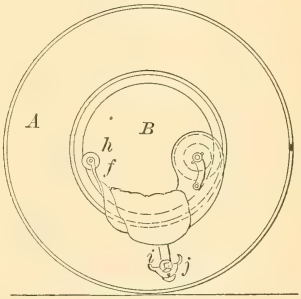
**91532**—H. J. Ferguson—*Railroad Rail.*



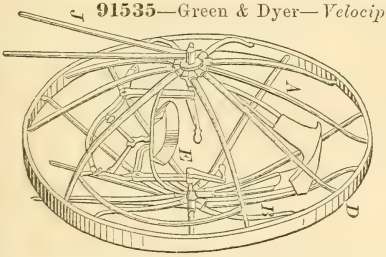

**91533**—L. Fischer—*Vapor Burner.*



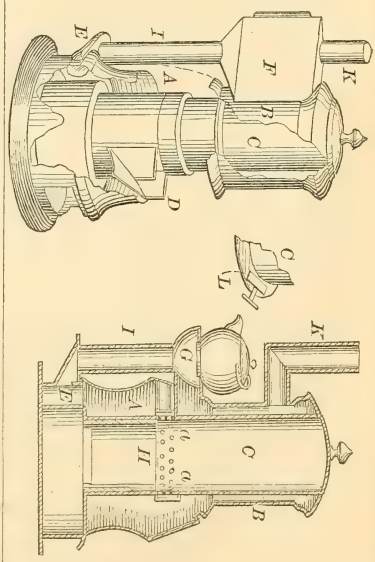

**91534**—L. B. Flanders—*Velocipede.*



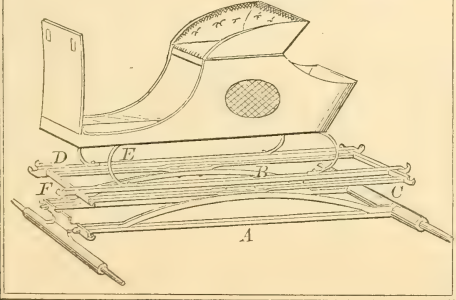

**91535**—Green & Dyer—*Velocipede.*



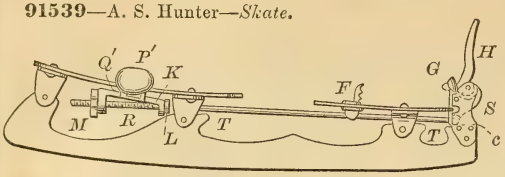

**91536**—J. C. Henderson—*Stove.*

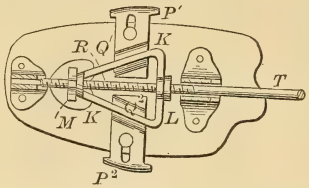



**91538**—Hodge & Mann—*Carriage Spring.*

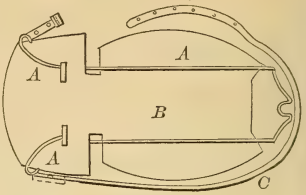


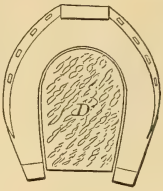
**91539**—A. S. Hunter—*Skate.*

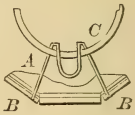


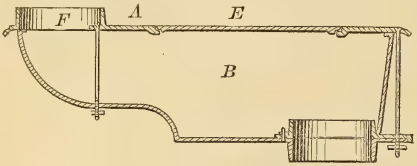

**91541**—J. Johnson—*Pad for Horses' Hoofs.*

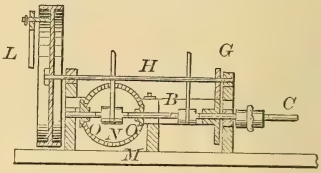


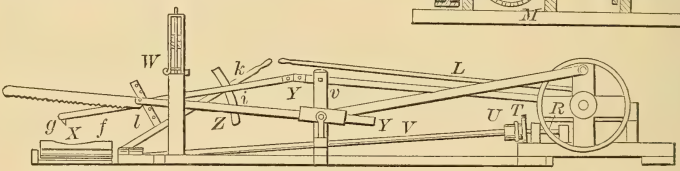



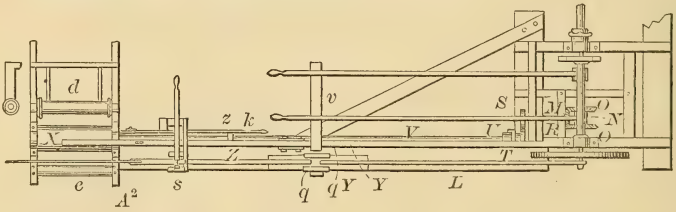

**91542**—D. P. Kayner—*Cooking Stove.*



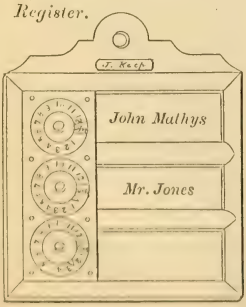




**91544**—I. Keller—*Wood Sawing Machine.*

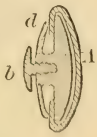


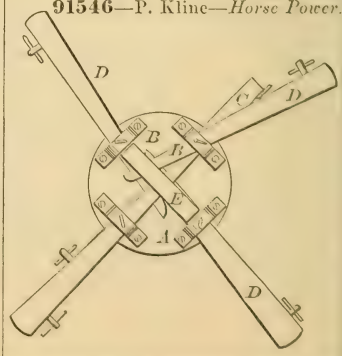

**91543**—J. M. Keep—*Office Indicator and Register.*



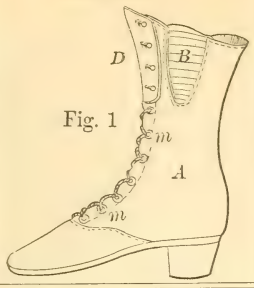

**91545**—I. C. Kelley—*Rosette Holder.*



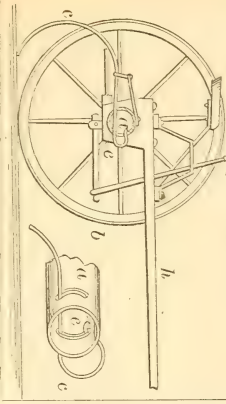

**91546**—P. Kline—*Horse Power.*



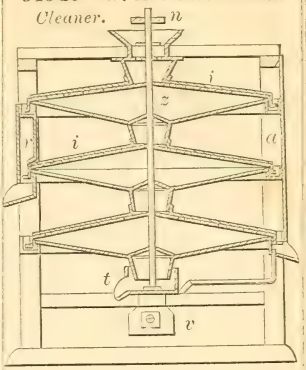
**91547**—W. Leathe—*Boots and Shoes.*



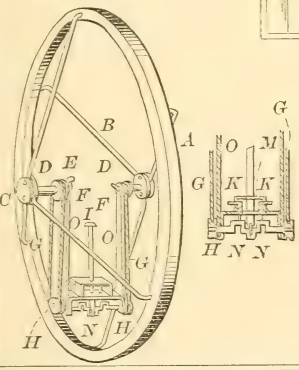

**91548**—W. A. Lewis—*Horse Rake.*



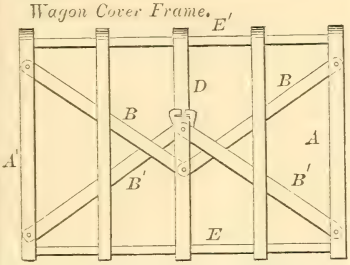

**91549**—W. A. Lewis—*Grain Cleaner.*



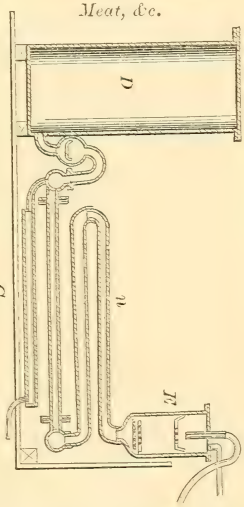

**91550**—J. Lund—*Velocipede.*



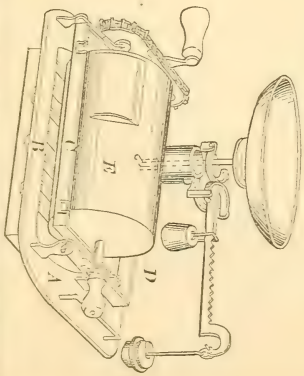

**91551**—B. G. Luther—*Folding Wagon Cover Frame.*



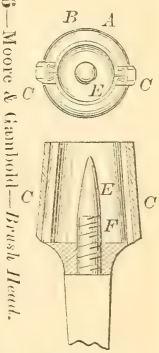

**91552**—A. S. Lyman—*For Curing and Preserving Meat, &c.*



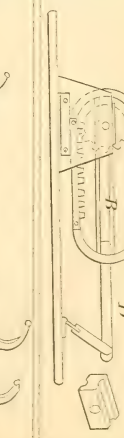

**91553**—C. Mackb—*Coffee Roaster.*



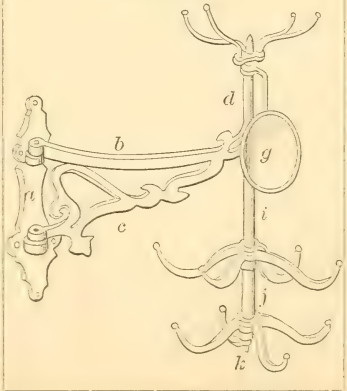

**91554**—Moore & Gambold—*Brush Head.*



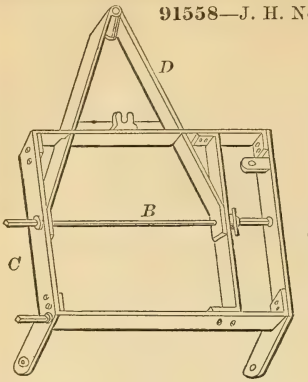

**91555**—T. A. Mitchell—*For Converting Motion.*

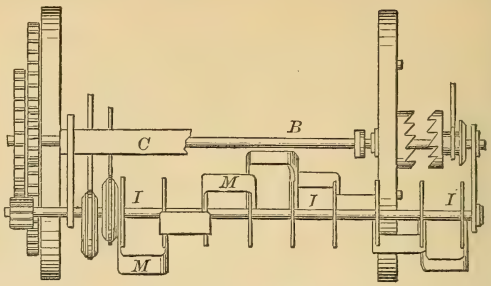


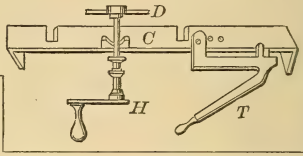

**91559**—J. E. Osborn—*Hat and Coat Rack.*



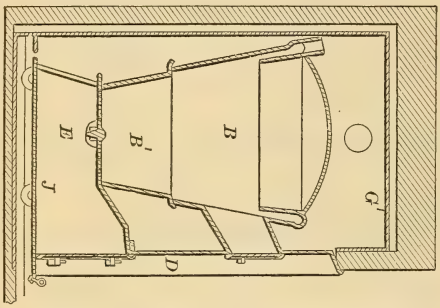
**91558**—J. H. Northcott—*Steam Plow.*



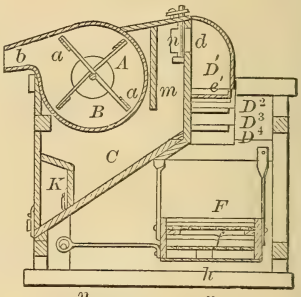



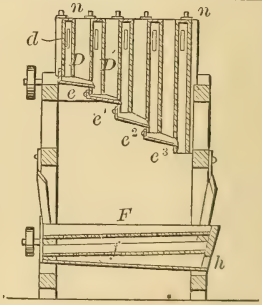




**91560**—J. S. Perry—*Hot Air Furnace.*

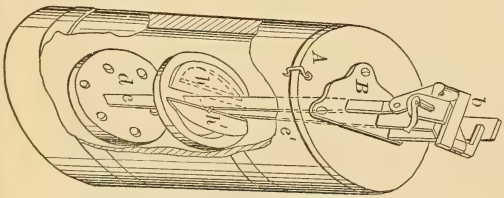



**91561**—C. T. Phillips—*Grain Separator.*

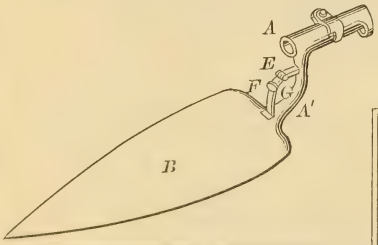


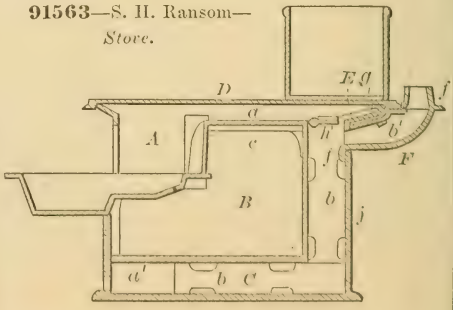

**91562**—A. M. Powell—*Churn.*



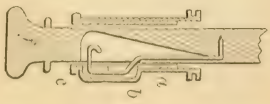

**91564**—E. Rice—*Spade Bayonet.*



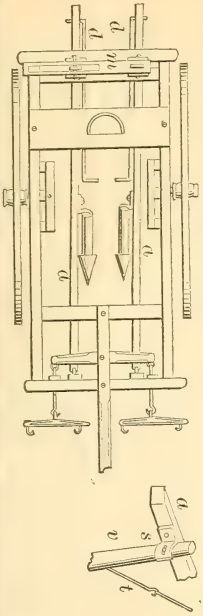

**91563**—S. H. Ransom—*Stove.*



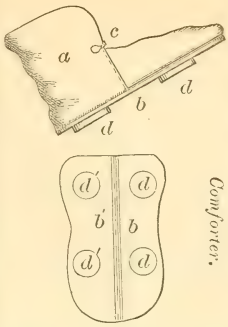

**91565**—H. T. Robbins—*Umbrella Runner.*



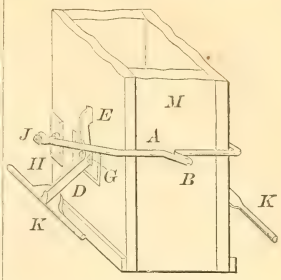
**91566**—J. Robinson—*Sulky Cultivator.*



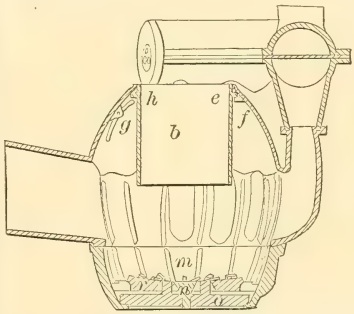
**91567**—G. W. Rothrock—*Foot Comforter.*



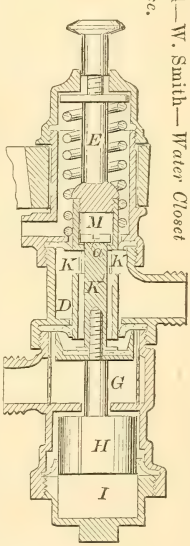
**91568**—N. N. Rugg—*Bag Holder.*



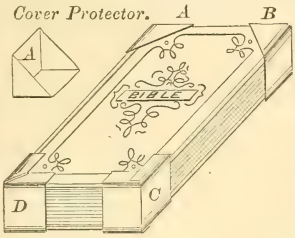
**91569**—W. Sanford—*Hot Air Furnace.*



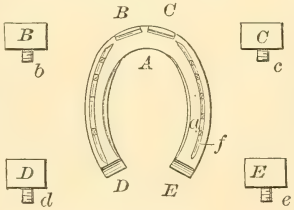
**91574**—W. Smith—*Water Closet Valve.*



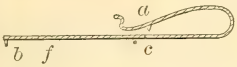
**91570**—A. L. Sewell—*Book Cover Protector.*



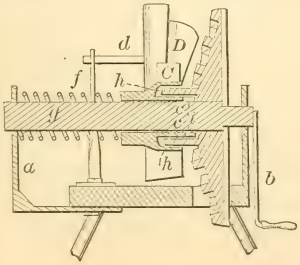
**91571**—Smith & Evans—*Horse Shoe.*



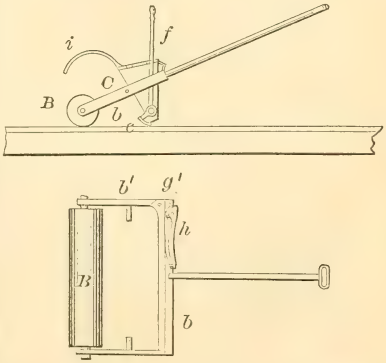
**91573**—J. V. C. Smith—*Carpet Fastener.*



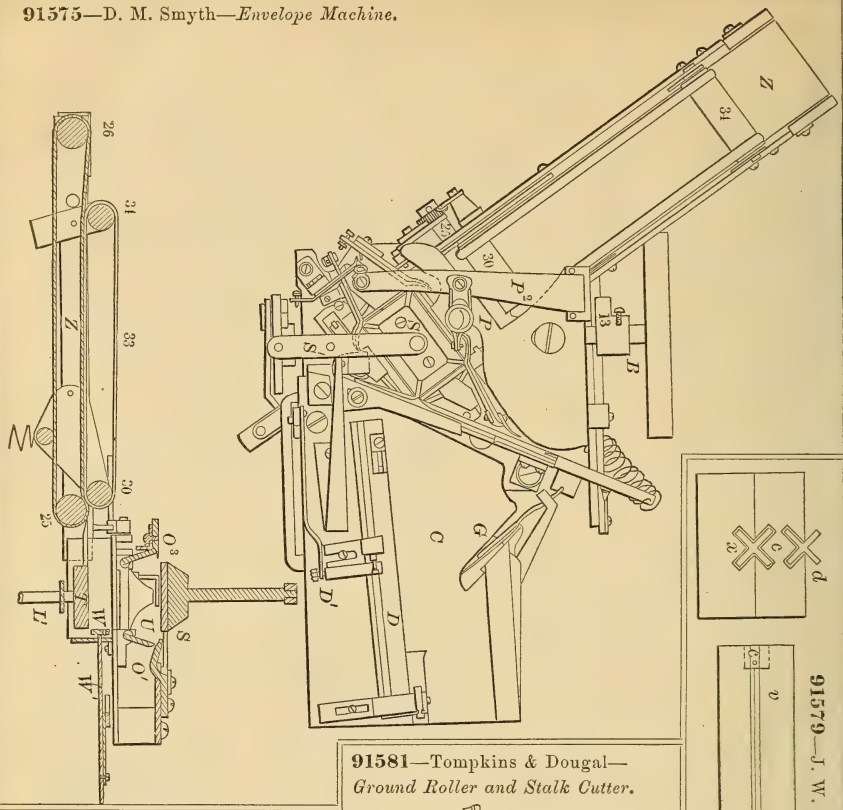
**91572**—J. P. Smith—*Corn Sheller.*



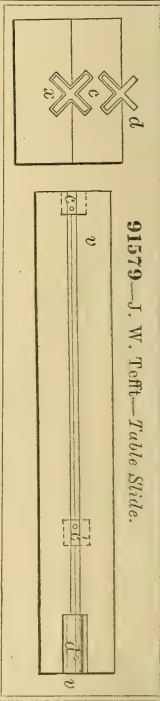
**91577**—H. G. Soules—*For Manufacturing Roofing.*



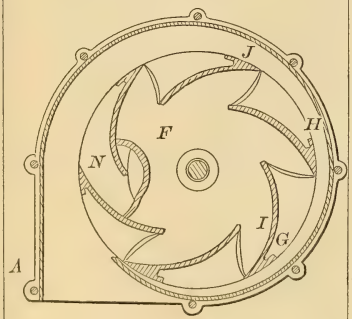
**91575**—D. M. Smyth—*Envelope Machine.*

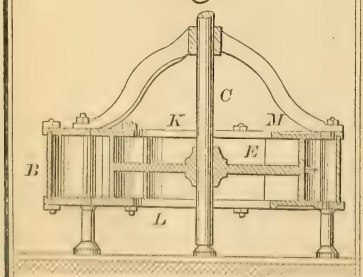



**91579**—J. W. Tefft—*Table Slide.*

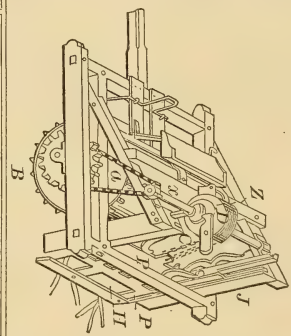



**91580**—T. R. Timby—*Turbine Water Wheel.*

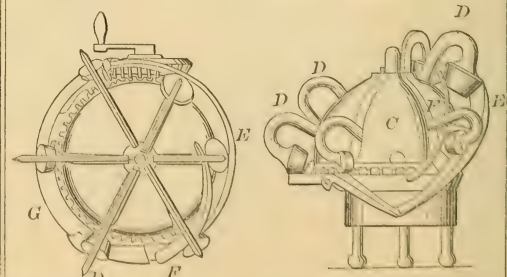


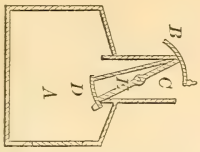

**91581**—Tompkins & Dougal—*Ground Roller and Stalk Cutter.*



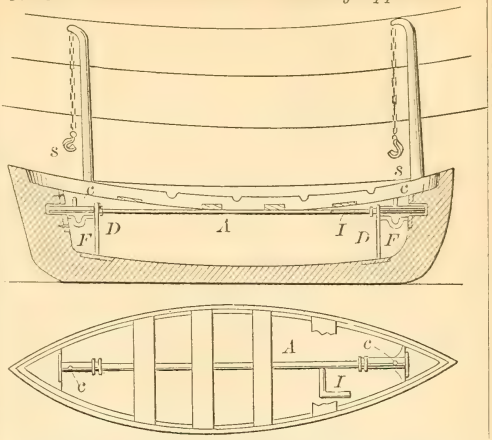

**91582**—W. H. Ward—*Harvester Rake.*



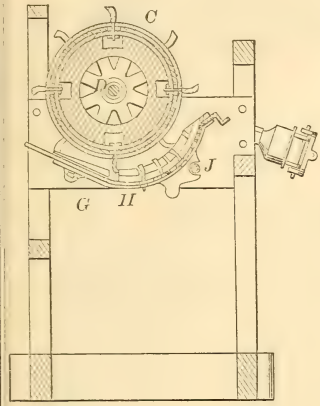
**91583**—F. Wittram—*Letter Box.*



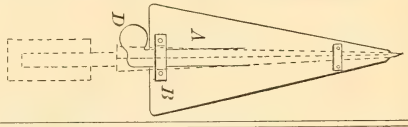

**91584**—W. M. Wood—*Boat Detaching Apparatus.*



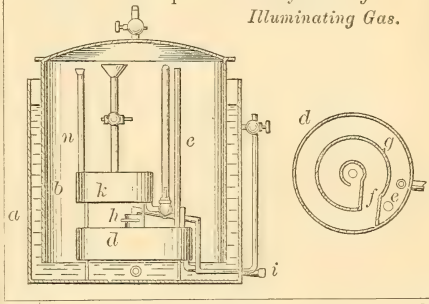

**91587**—J. Allonas—*Threshing Machine.*



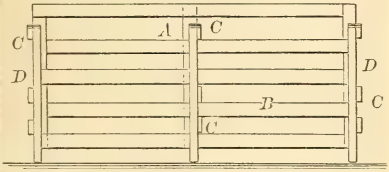

**91586**—J. S. Alexander—*Spade Bayonet.*



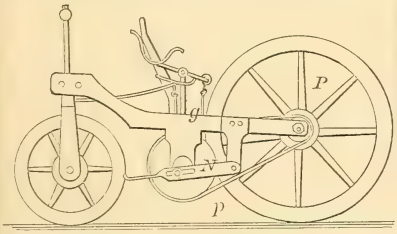

**91588**—R. Alsop—*For Manufacturing Illuminating Gas.*

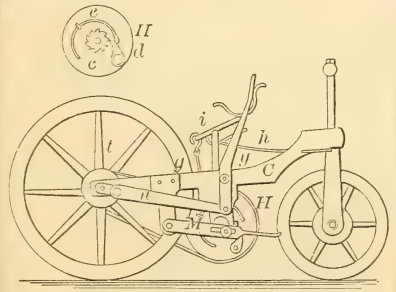



**91585**—C. Abbott—*Fence.*

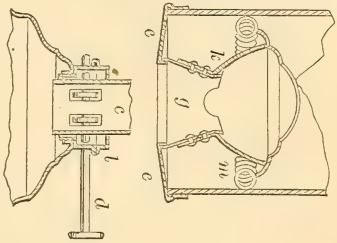



**91589**—S. Anderson—*Velocipede.*

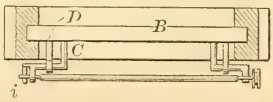


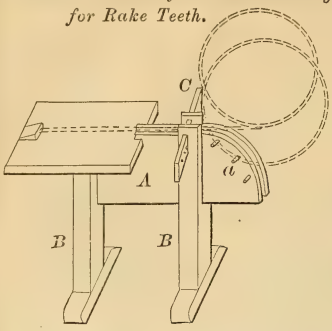

**91590**—L. J. Atwood—*Lamp.*



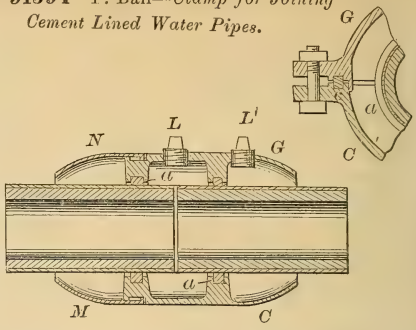

**91591**—J. D. Ayers—*Curtain Fixture.*



**91592**—J. N. Ayres—*For Bending Wire for Rake Teeth.*

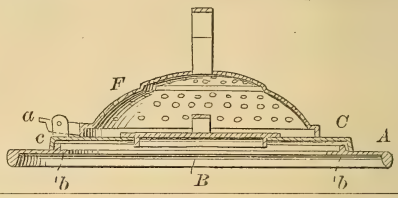



**91594**—P. Ball—*Clamp for Joining Cement Lined Water Pipes.*

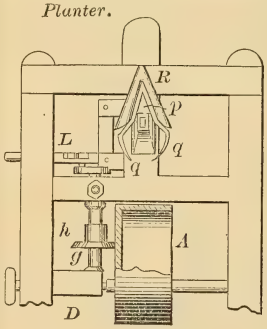


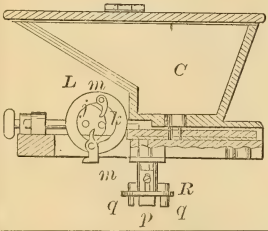

**91593**—N. W. Baker—*Tying up Awl.*

**91598**—E. W. Bigelow—*Stove Top and Cover.*

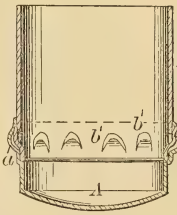



**91595**—G. Banister—*Seed Planter.*

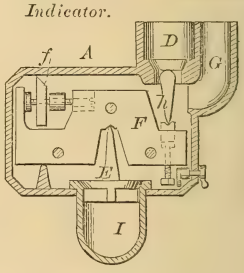


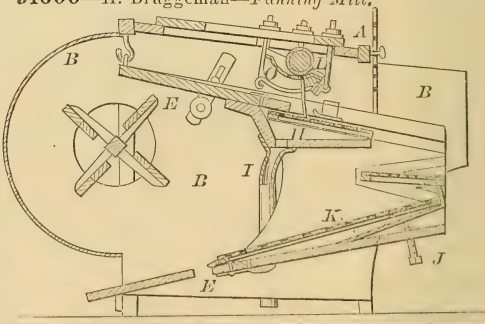

**91596**—A. Bennett—*Range Boiler.*



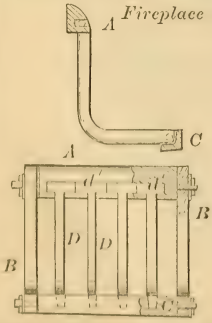

**91599**—J. Brahn—*Low Water Indicator.*



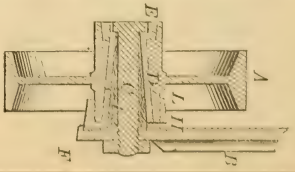

**91600**—H. Bruggeman—*Fanning Mill.*



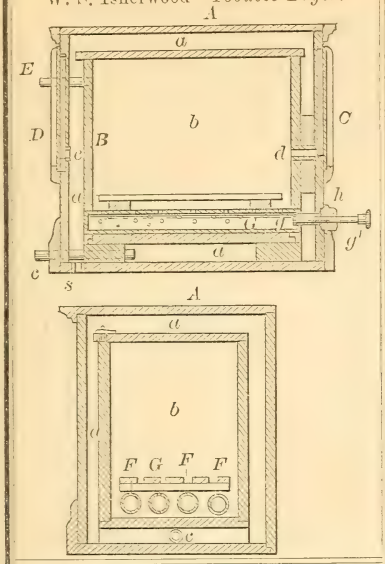

**91597**—L. Bertsche, Jr.—*Fireplace Grate.*



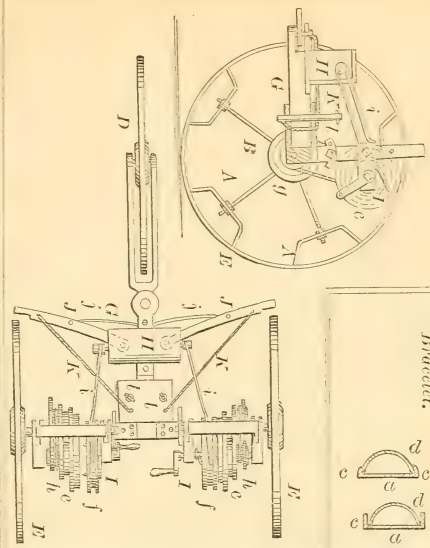

**91603**—Clarke & Dickey—*Lubricating Journal.*



**91601**—Burdick, Chase, F. P. & W. S. Isherwood—*Tobacco Dryer.*



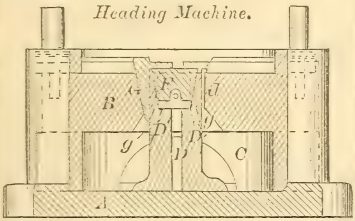
**91602**—A. L. Butterfield—*Velocipede.*



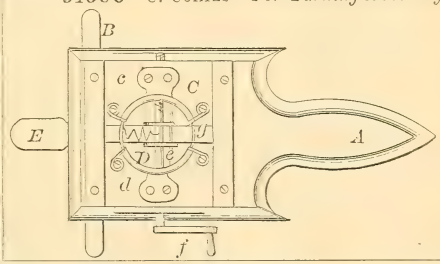
**91604**—A. Colding, Jr.—*Bracket.*



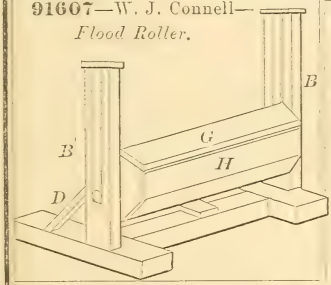
**91605**—L. Coes—*Wrench Bar Heading Machine.*



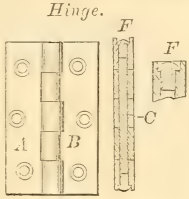
**91606**—C. Collins—*For Turning Boot Legs.*



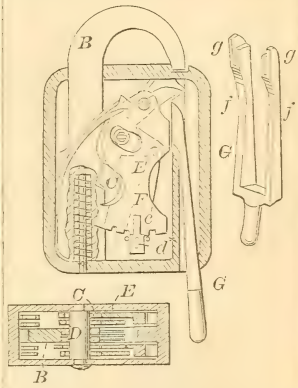
**91607**—W. J. Connell—*Flood Roller.*



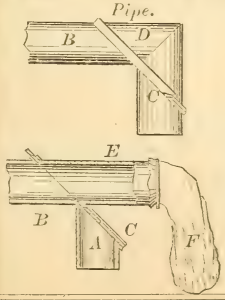
**91609**—J. J., L. & H. S. Crooke—*Hinge.*

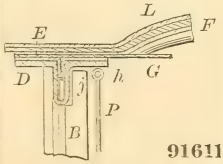


**91610**—A. Crosby—*Padlock.*

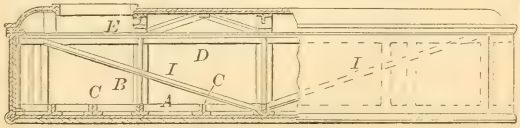


**91608**—A. D. Cook—*Stove Pipe.*

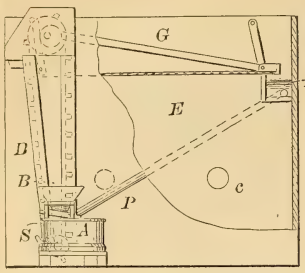




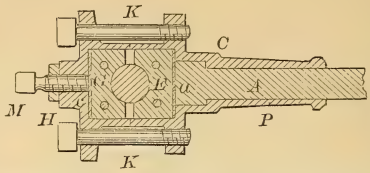
**91611**—A. Crosby—*Burial Case.*



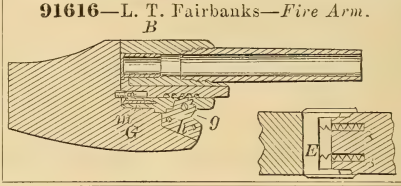
**91612**—H. Cutler—*Flour Mill.*



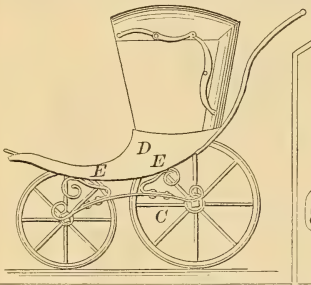

**91613**—M. D. Drake—*Pitman.*



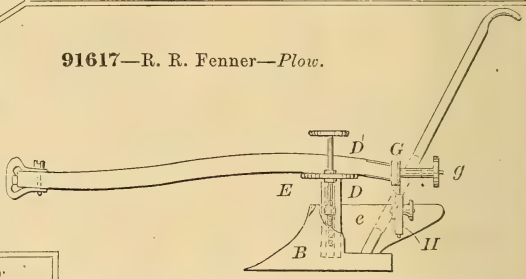

**91616**—L. T. Fairbanks—*Fire Arm.*



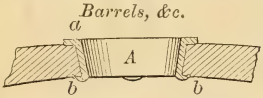

**91615**—J. A. H. Ellis—*Carriage.*



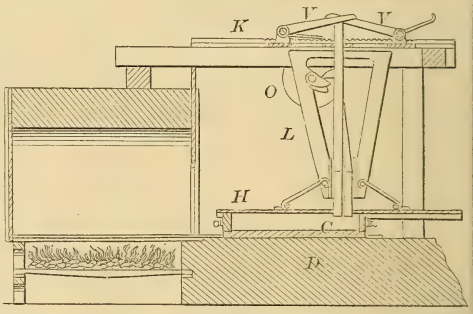

**91617**—R. R. Fenner—*Plow.*



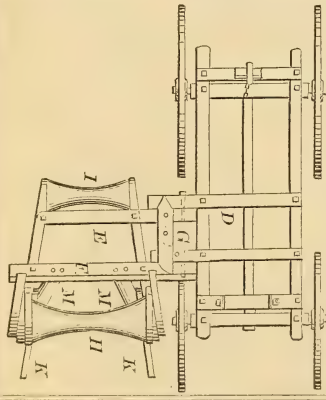

**91618**—D. F. Fetter—*Bush for Barrels, &c.*



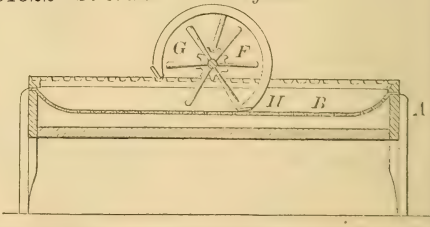

**91619**—G. W. Francis—*For Making Sheet Iron.*



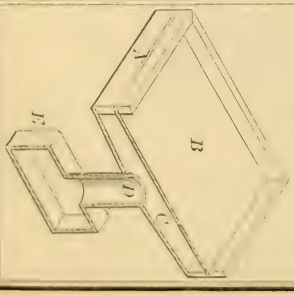

**91620**—D. Gore—*For Plashing Hedges.*



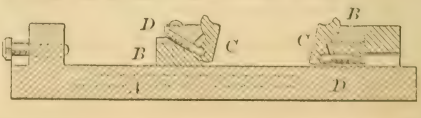

**91622**—D. C. Hall—*Curd Agitator.*



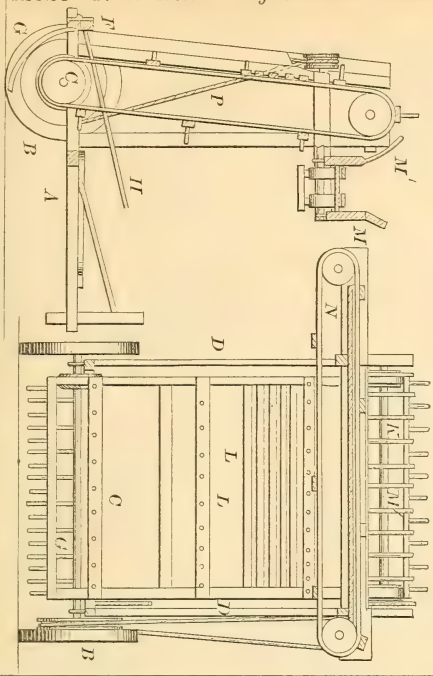

**91626**—H. Henley—*Fruit Dryer.*



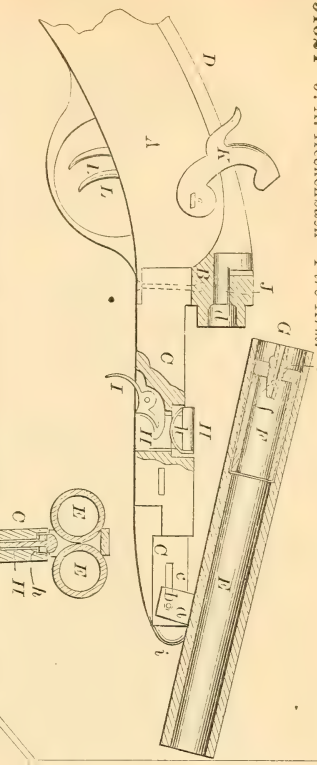

**91625**—R. Henderson—*Planer Chuck.*



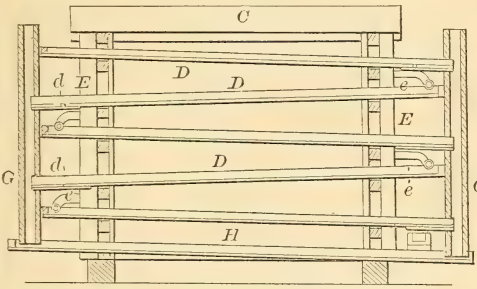
**91623**—F. W. Harlow—*Hay Raker and Loader.*



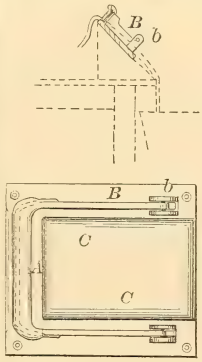
**91624**—J. A. Heckenbach—*Fire Arm.*



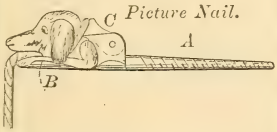
**91627**—Heslep & Cochrane—*Ore Washer and Concentrator.*



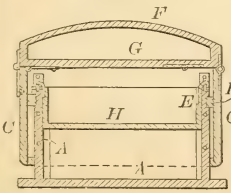
**91628**—M. Housy—*For Cleaning Sausage Cases.*



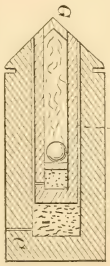
**91629**—H. Hickman—*Picture Nail.*



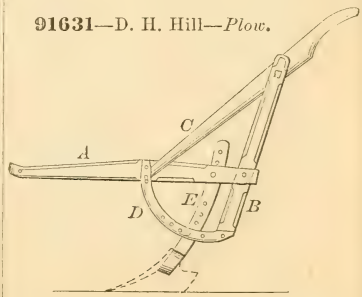
**91630**—H. Hickman—*Trunk.*



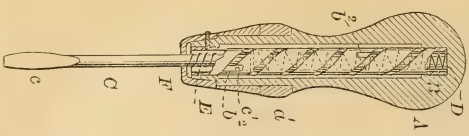
**91633**—J. W. Hill—*Projectile.*



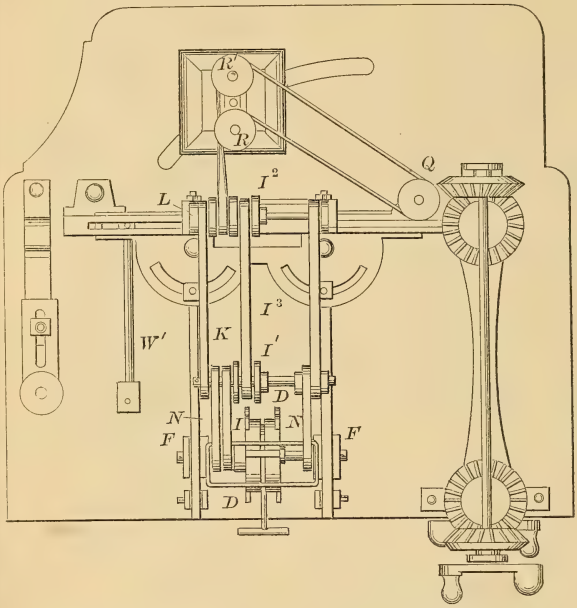
**91631**—D. H. Hill—*Plow.*



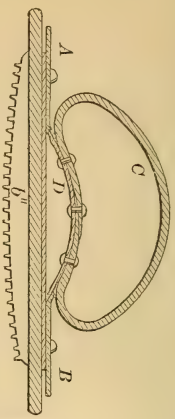
**91634**—W. Hofer—*Screw Driver.*



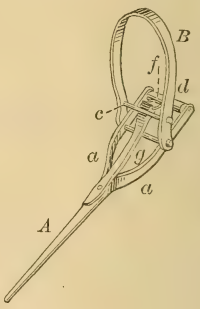

**91635**—T. Holt—*Grooving Machine.*



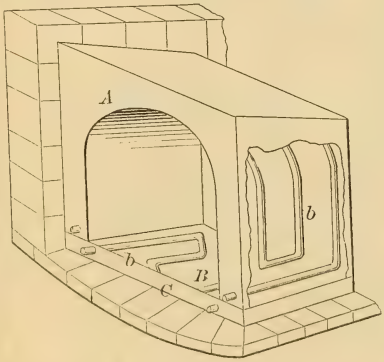

**91637**—J. E. Insley—*Curry Comb.*



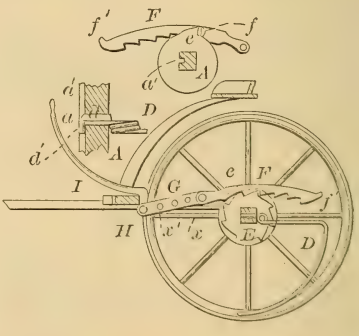

**91639**—W. Kelly—*Animal Poke.*



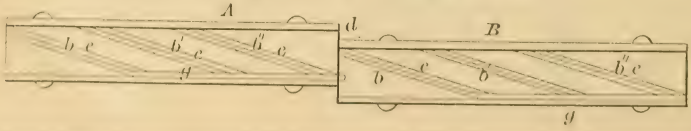

**91636**—J. Horton—*Tuyere Arch.*



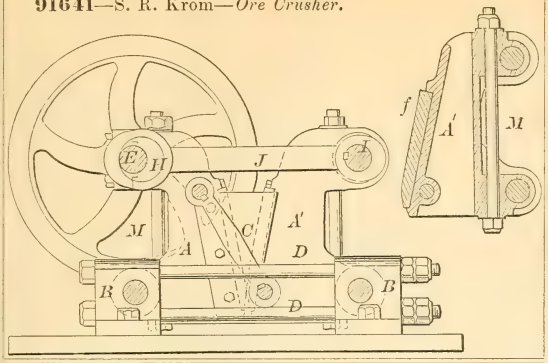

**91640**—W. King—*Horse Rake.*



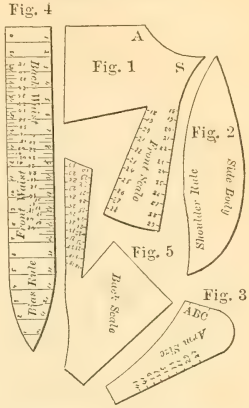

**91638**—O. Jennings—*Mining Sluice for Saving Sulphurets.*



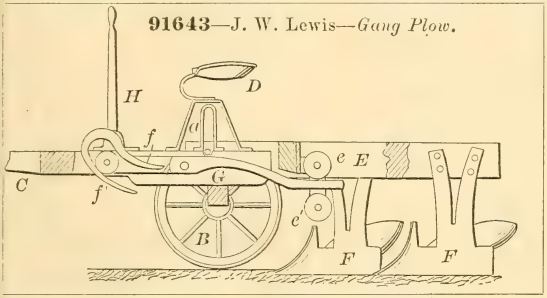
**91641**—S. R. Krom—*Ore Crusher.*



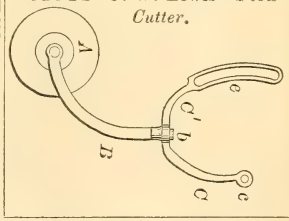

**91642**—J. M. Lent—*Dress Waist Pattern.*



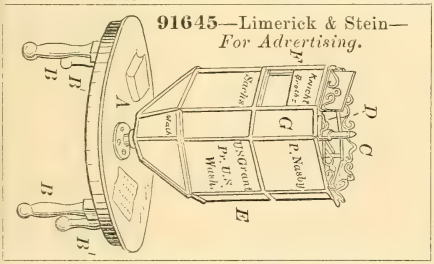

**91643**—J. W. Lewis—*Gang Plow.*



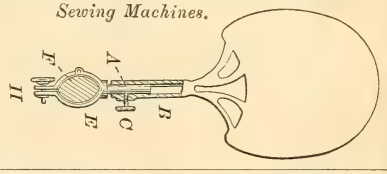

**91644**—J. W. Lewis—*Plow Cutter.*



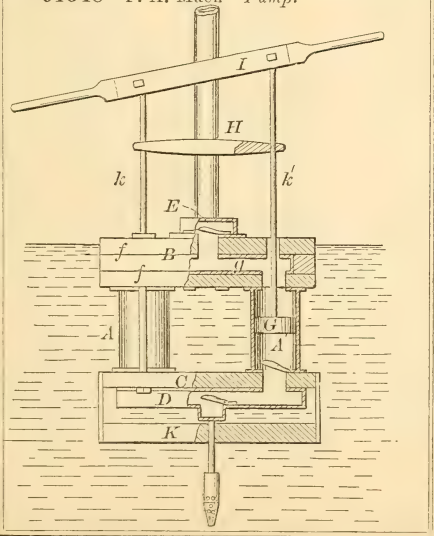

**91645**—Limerick & Stein—*For Adrertising.*



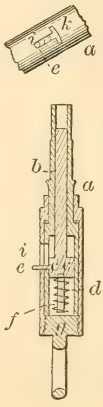

**91646**—T. A. Lyle—*Fan Attachment for Sewing Machines.*



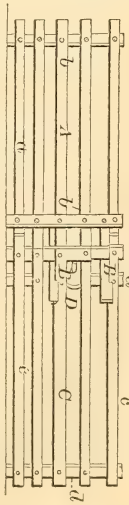

**91648**—F. A. Mack—*Pump.*



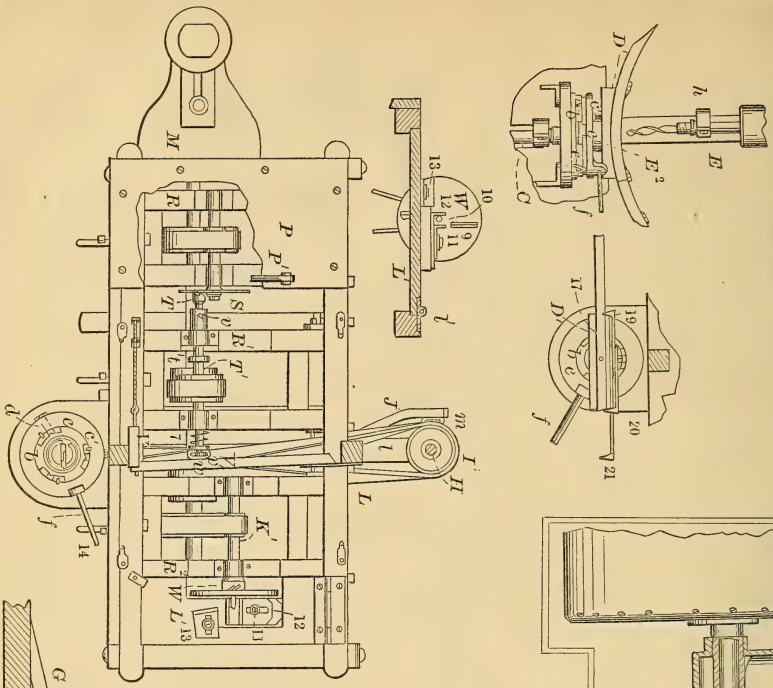

**91650**—W. N. Martin—*Watch Key.*



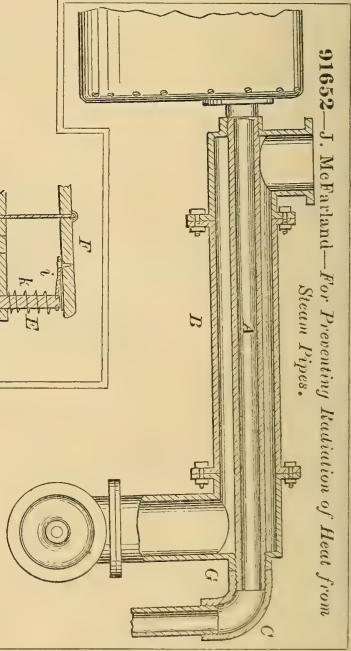

**91651**—P. McCollum—*Fence.*



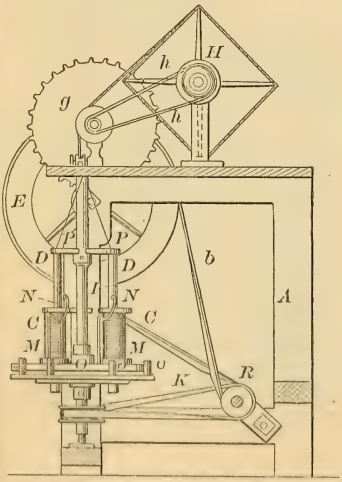
**91649**—Marshall & Hawkins—*Wheel Making Machine.*



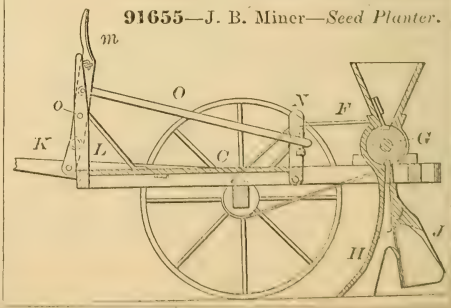
**91652**—J. McFarland—*For Preventing Radiation of Heat from Steam Pipes.*



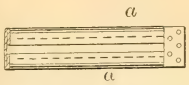
**91653**—J. McIntire—*For Making Twine, &c.*



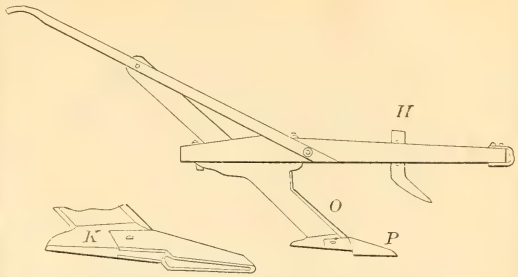
**91655**—J. B. Miner—*Seed Planter.*



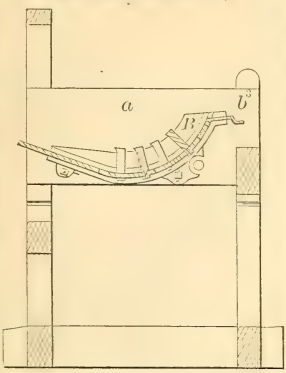
**91656**—J. Montgomery—*Machine Belting.*



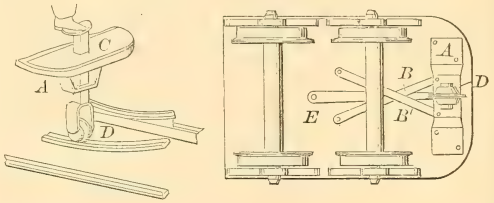

**91657**—J. W. Murfee—*Subsoil Plow.*



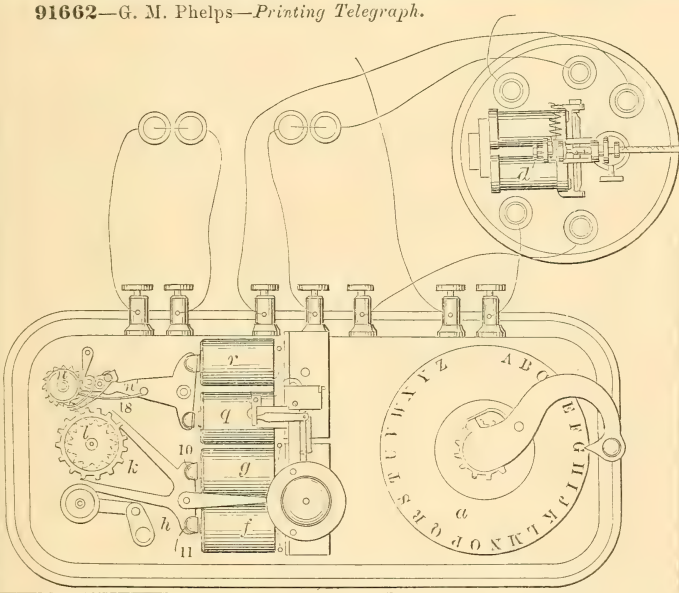

**91658**—J. Nichols—*Threshing Machine Concave.*



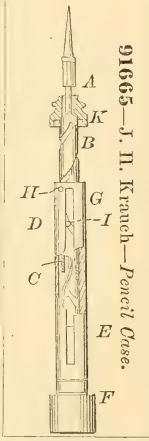

**91663**—D. Pike—*Railway Switching Apparatus.*



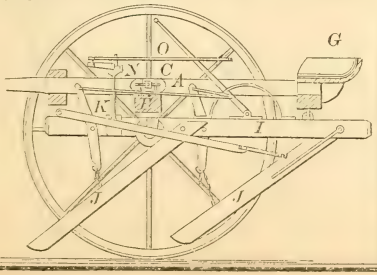

**91662**—G. M. Phelps—*Printing Telegraph.*



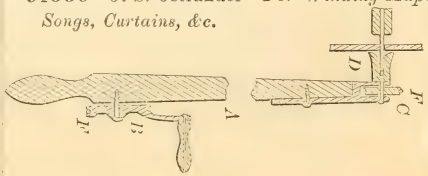

**91665**—J. H. Krauch—*Pencil Case.*



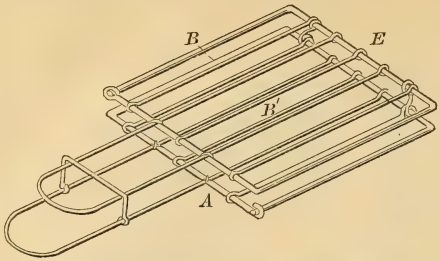

**91661**—R. B. & J. K. Parks—*Cultivator.*



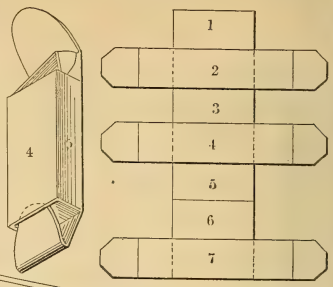

**91660**—J. S. Ostrander—*For Winding Maps, Songs, Curtains, &c.*



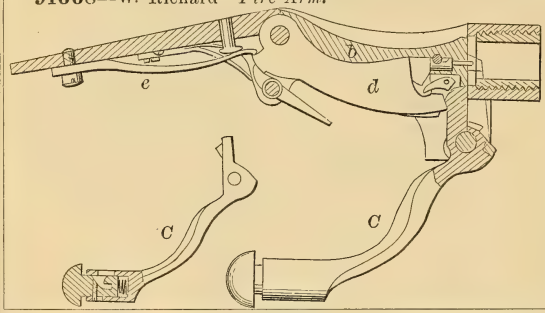
**91664**—C. L. Prouty—*Broiler and Toaster.*



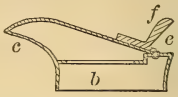

**91666**—J. L. Reber—*Paper Box.*



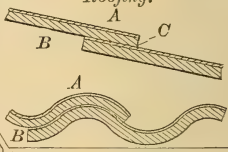

**91668**—W. Richard—*Fire Arm.*



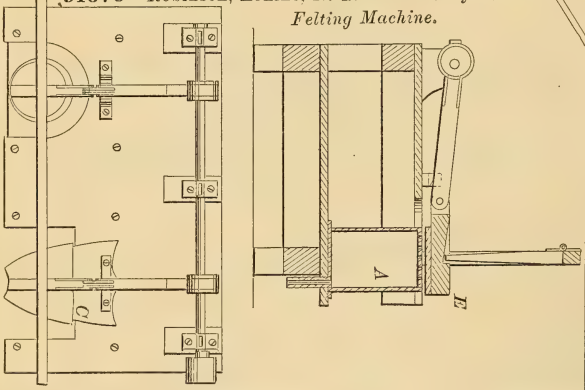

**91669**—F. B. Richardson—*Casting Jug Tops.*



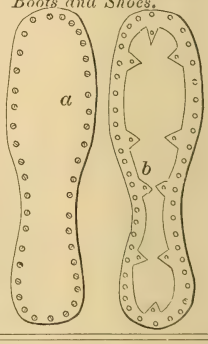

**91672**—C. C. Scaife—*Metallic Roofing.*



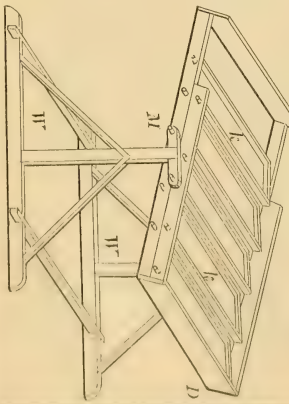

**91670**—Robinson, Lonine, N. T. & D. W. Hyatt—*Felting Machine.*




**91674**—Senour & Traphagan—*Boots and Shoes.*




**91671**—Rogers & Selby—*Fruit Dryer.*




**91673**—G. Schneider—*Picture Frame.*

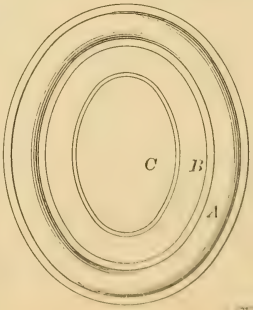



Fig. 4

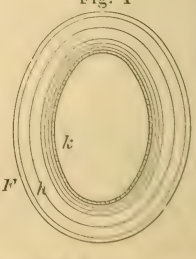
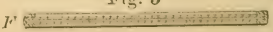
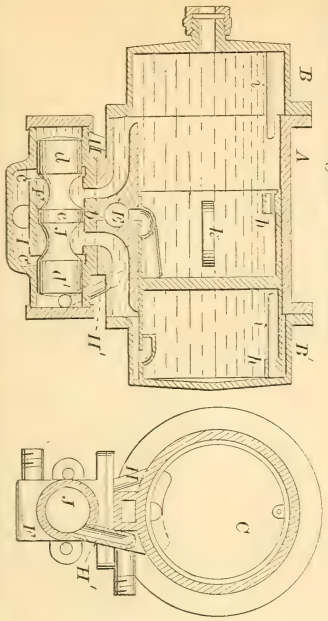


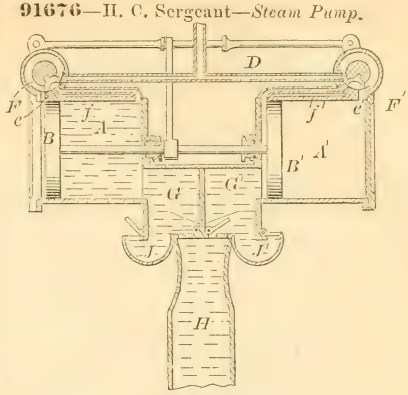

Fig. 5



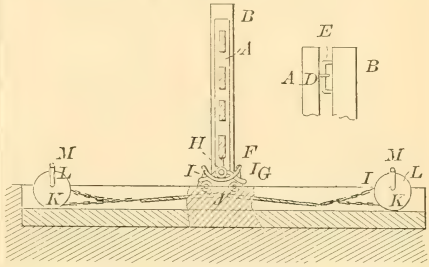
**91675**—H. C. Sergeant—*Water Meter.*



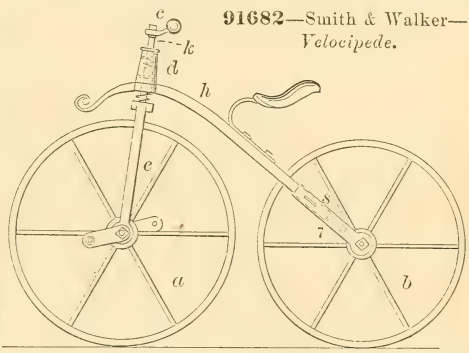
**91676**—H. C. Sergeant—*Steam Pump.*



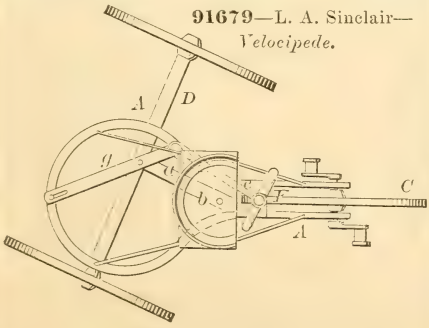
**91677**—L. W. Sibley—*Gate.*



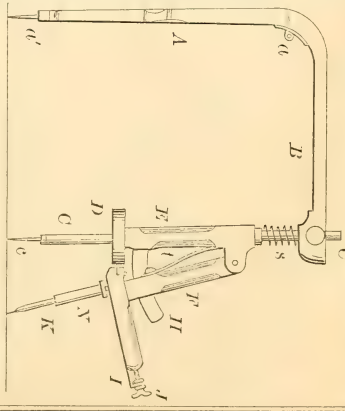
**91682**—Smith & Walker—*Velocipede.*



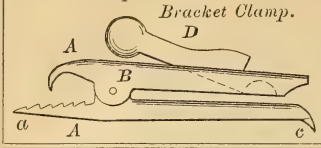
**91679**—L. A. Sinclair—*Velocipede.*



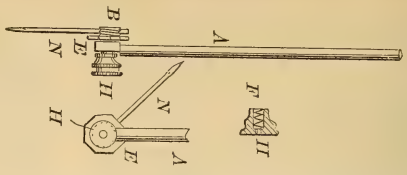
**91681**—A. Smith—*Ellipsograph.*



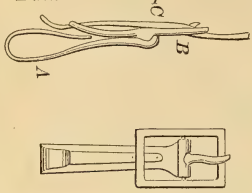
**91683**—Spaulding & Smith—*Bracket Clamp.*



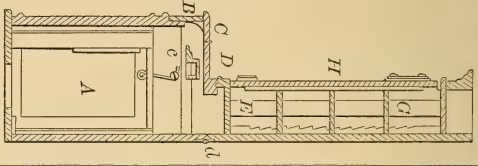

**91684**—G. Stackpole—*Sewing Machine.*



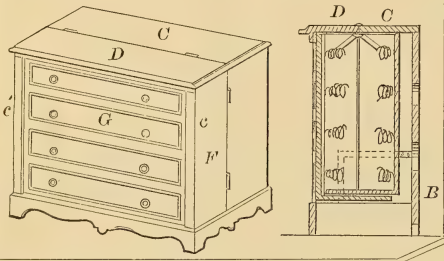

**91685**—S. G. & W. E. Sturges—*Buckle and Snap.*



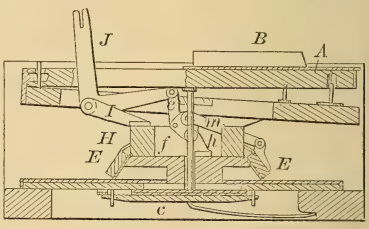

**91687**—S. Taylor—*Organ and Book Case.*



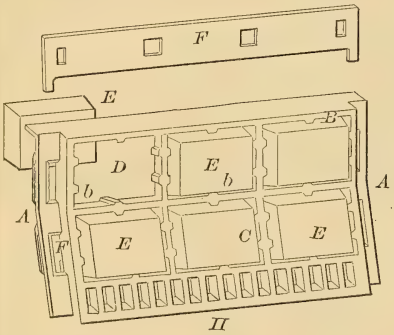

**91688**—D. Trefry—*Bureau Bedstead.*



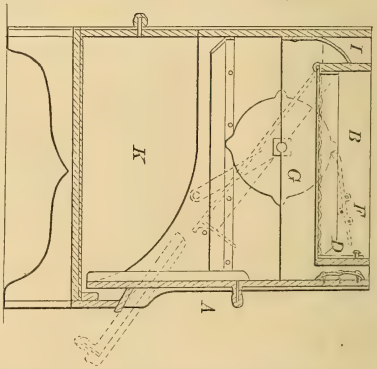

**91686**—S. Taylor—*Organ and Melodeon.*



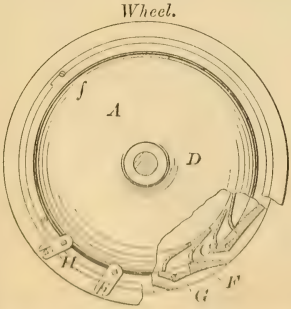

**91689**—C. Truesdale—*Fireplace Lining.*



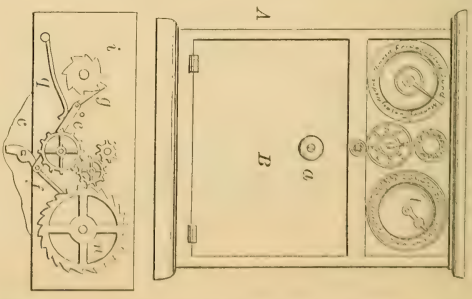

**91692**—W. Vogel—*Ash Sifter.*



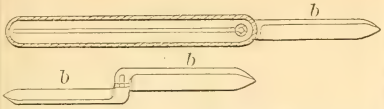

**91691**—J. W. Upham—*Water Wheel.*



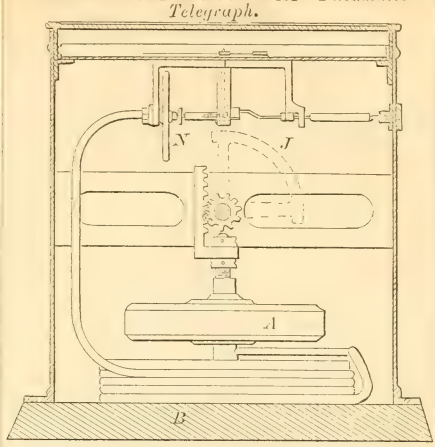

**91690**—S. J. Tucker—*Writing Desk Calendar.*



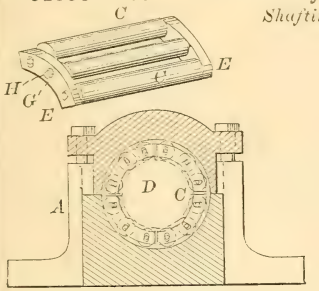
**91693**—A. G. Waterhouse—*Knife.*



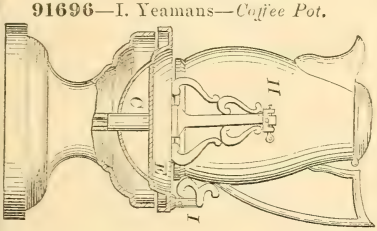

**91694**—A. M. & M. A. Wier—*Pneumatic Telegraph.*



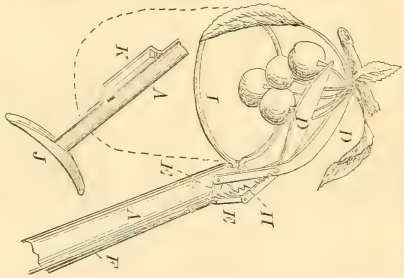

**91695**—W. E. Wilcox—*Roller for Shafting.*



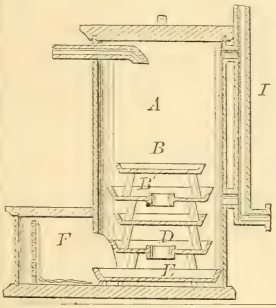

**91696**—I. Yeamans—*Coffee Pot.*



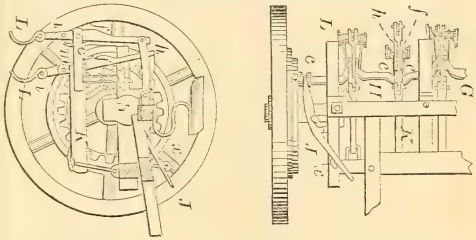

**91698**—J. H. Adams—*Fruit Picker.*



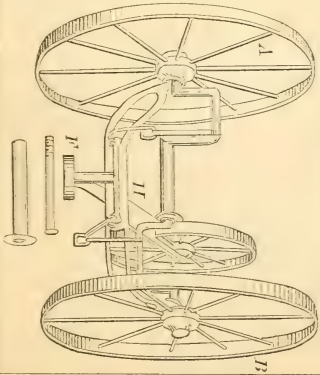

**91700**—J. Armstrong—*Feed Water Heater.*



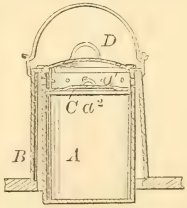

**91699**—Adams & Sheetz—*Hay Spreader.*



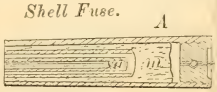

**91702**—J. C. Beaumont—*Velocipede.*



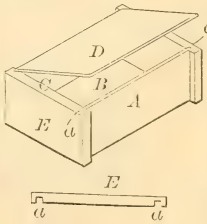

**91697**—H. Zachgo—*Culinary Vessel*



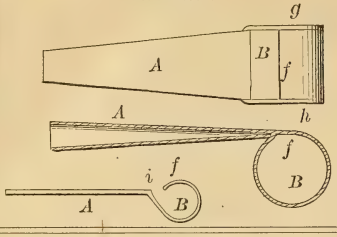

**91701**—J. D. Bacon—*Shell Fuse.*



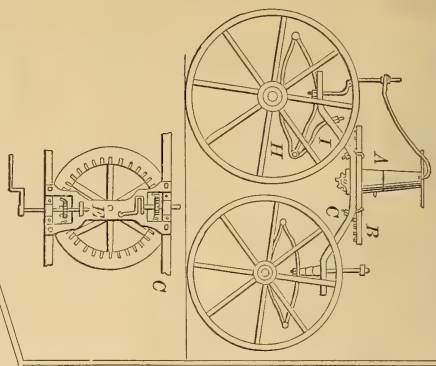

**91703**—L. W. Beecher—*Match Box.*



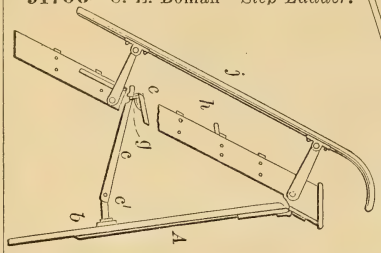
**91704**—A. S. Bird—*Steam and other Whistles.*



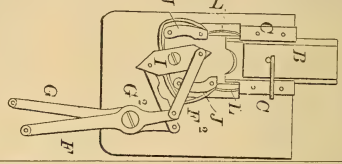

**91705**—W. Boate—*Hose Carriage.*



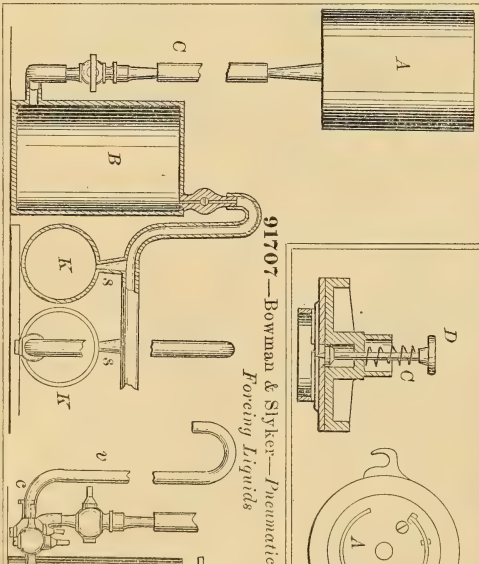

**91706**—C. E. Boman—*Step Ladder.*



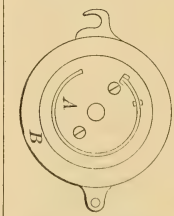

**91708**—A. H. Boyd—*Sewing Machine Braider.*



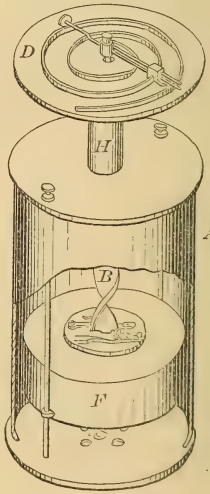

**91707**—Bowman & Slyker—*Pneumatic Device for Forcing Liquids*



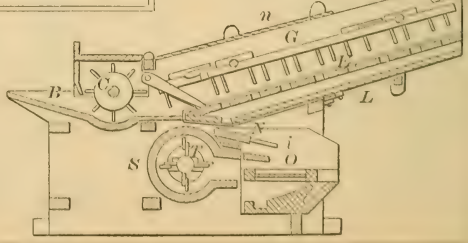

**91709**—Z. Breed—*Fire Extinguisher.*



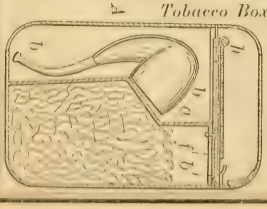

**91711**—J. R. Burville—*Hydrostatic Scale for Weighing Cargoes.*



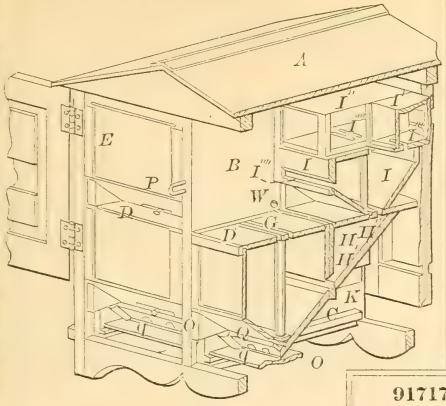

**91710**—J. Brightbill—*Grain Separator.*

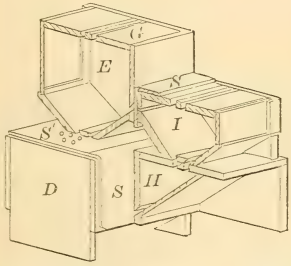



**91713**—L. G. Carr—*Pipe and Tobacco Box.*

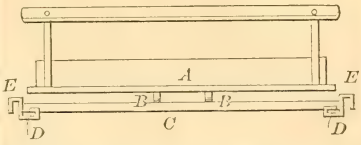


**91712**—G. Calvert—*Beehive.*



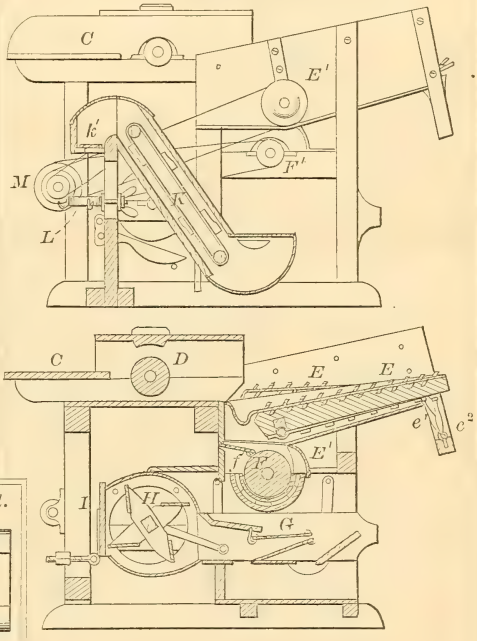




**91714**—I. H. Chappell—*Wagon Seat.*

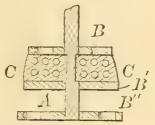



**91716**—W. Clemson—*Handle for Crosscut Saws*

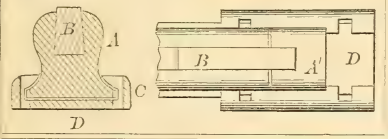
**91717**—A. Cornell—*Thresher, Separator and Clover Huller.*



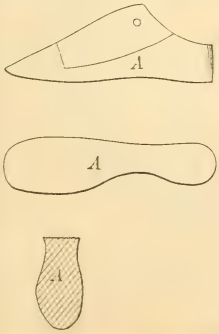

**91715**—Cheney & Ingalls—*Churn Dasher.*



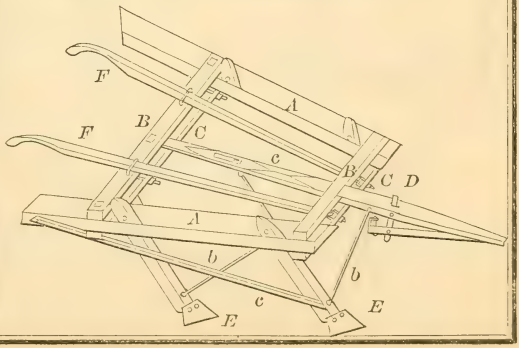

**91719**—J. F. Cranston—*Railway Rail.*



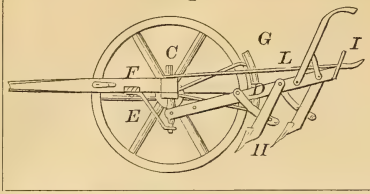

**91720**—C. O. Crosby—*Last.*



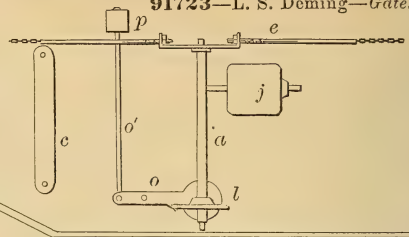

**91718**—R. D. Craft—*Cultivator.*



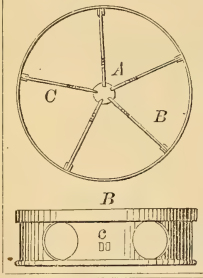
**91721**—Cummings & Childs—*Plow.*



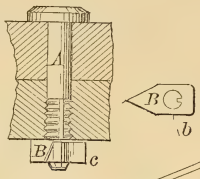

**91723**—L. S. Deming—*Gate.*



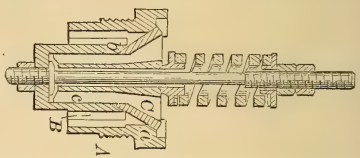

**91722**—A. G. Davis—*Mouse Trap.*



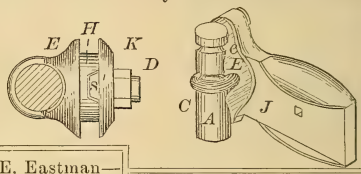

**91724**—L. L. Deweese—*Nut Lock.*



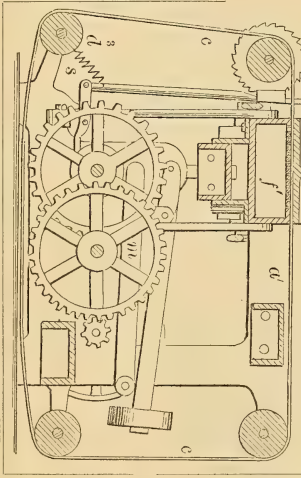

**91725**—S. B. Dougherty—*Safety Valve.*



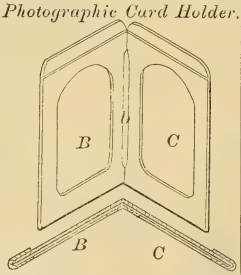

**91727**—W. A. Dryden—*Cultivator Joint.*



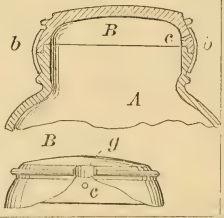

**91729**—R. Eickemeyer—*Felting Machine.*



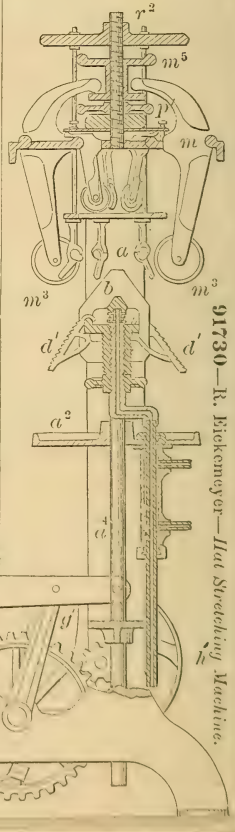

**91728**—W. E. Eastman—*Photographic Card Holder.*



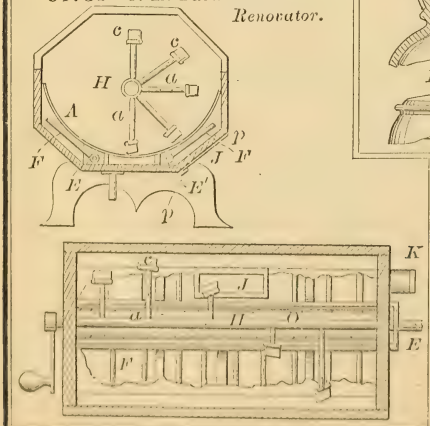

**91726**—H. S. Draper—*Fruit Jar.*



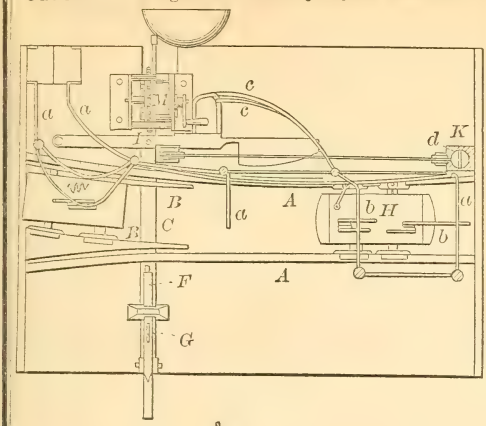

**91730**—R. Eickemeyer—*Hat Stretching Machine.*

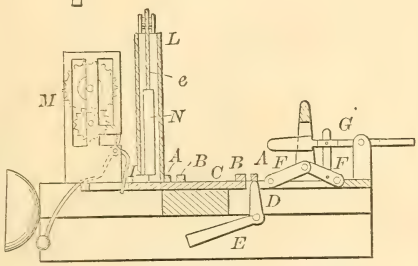



**91731**—C. H. Farnham—*Feather Renovator.*

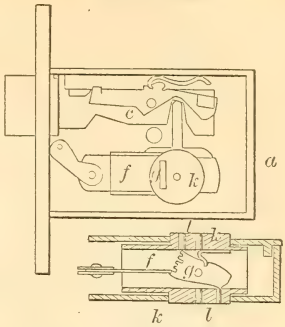


**91732**—D. Fitzgerald—*Railway Signal and Switch.*

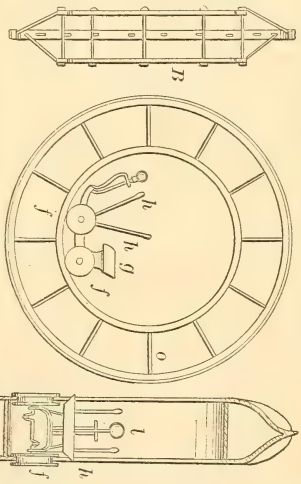


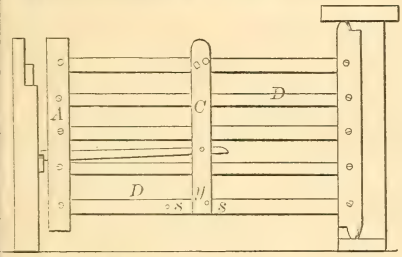

**91733**—Fowler & Clements—*Door Lock.*



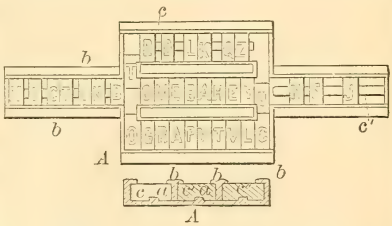

**91734**—Fraser & Austin—*Velocipede.*



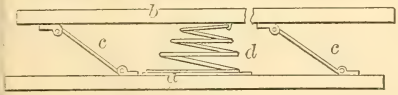

**91735**—Frazeur & Locklin—*Gate.*



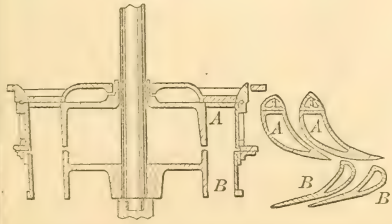

**91737**—E. F. Gilbert—*Instruction Puzzle.*



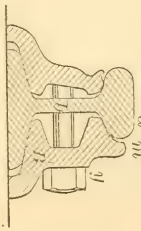

**91738**—R. A. Goodyear—*Bed Bottom.*



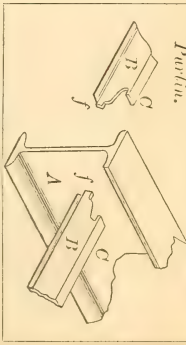

**91739**—D. H. Gould—*Water Wheel.*



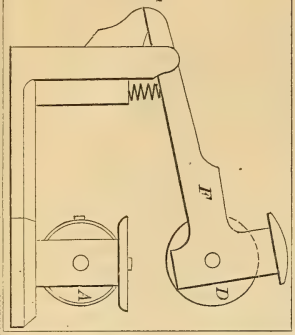

**91736**—Fritz & Sayre—*Railway Rail Joint.*



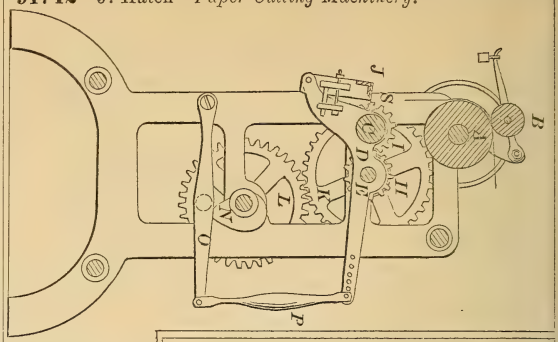

**91740**—G. Halstead—*Iron Roof Purlin.*



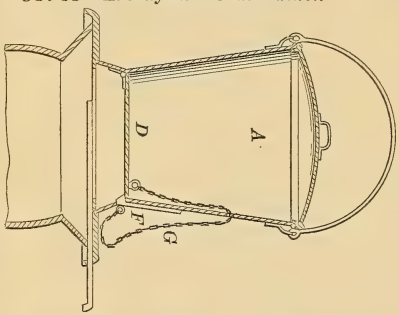
**91741**—F. J. Hart—*Hand Stamp.*



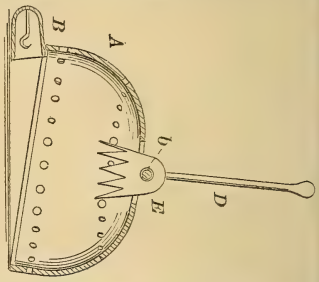

**91742**—J. Hatch—*Paper Cutting Machinery.*



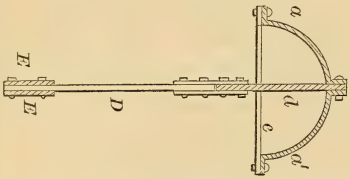

**91743**—L. Hayner—*Coal Bucket.*



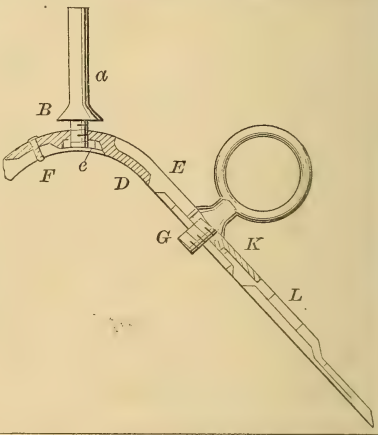

**91744**—C. Henert—*Animal Trap.*



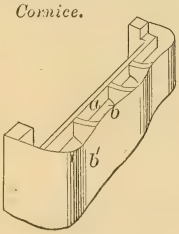

**91745**—J. G. Heuszey—*Bridge.*



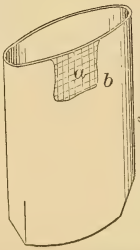

**91747**—J. Hughes—*Harness Pad.*



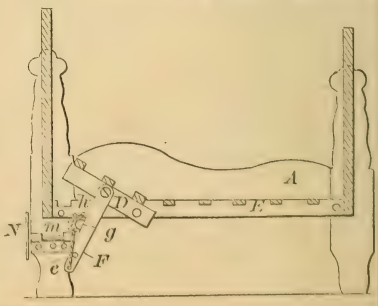

**91746**—C. W. Hill—*Window Curtain Cornice.*



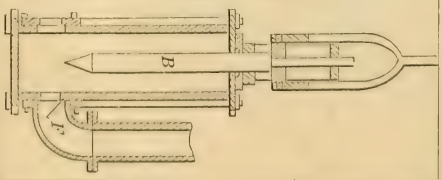

**91748**—A. Jameson—*Paper Bag.*



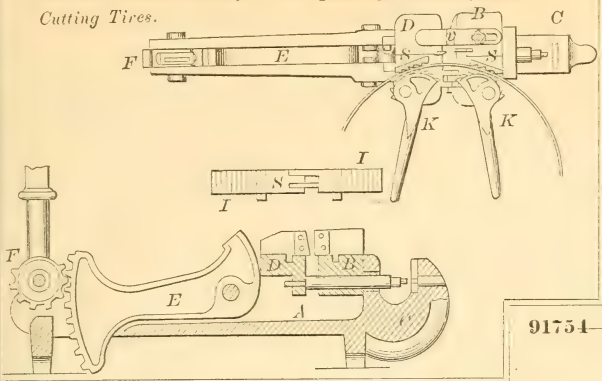

**91749**—Jennings & Bounds—*Bedstead.*



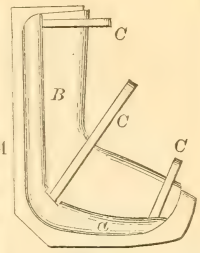

**91750**—W. F. Jones—*Pump.*



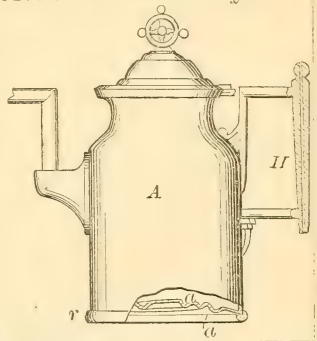
**91752**—Jordon & Doty—*For Upsetting, Punching and Cutting Tires.*



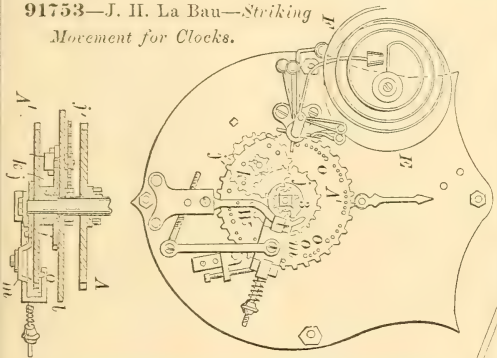

**91756**—C. Lomax—*Boot Crimp.*



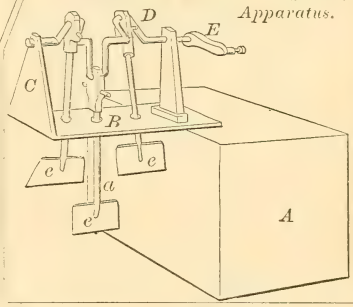

**91754**—N. Lawrence—*Coffee Pot.*



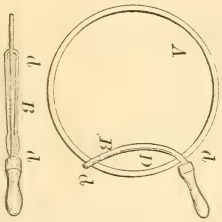

**91753**—J. H. La Bau—*Striking Movement for Clocks.*



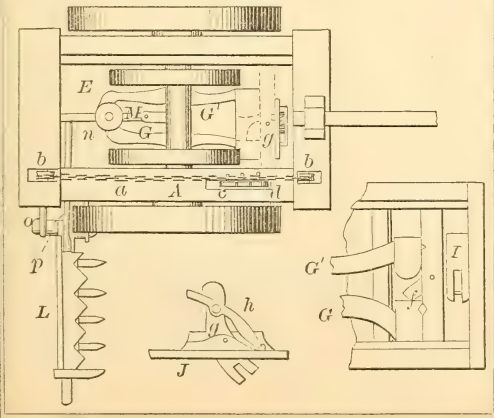

**91760**—L. Moody—*Propelling Apparatus.*



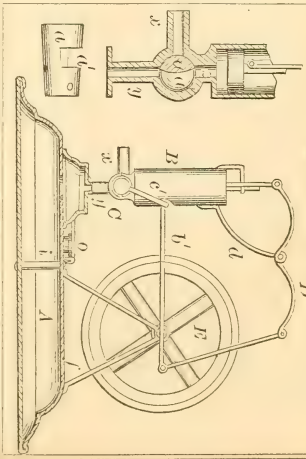

**91755**—B. Lindholm—*Guide Rolling Hoop.*




**91757**—G. G. Lyman—*Harvester.*

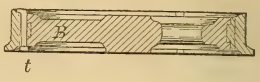



**91758**—P. Macy—*Toy Steam Engine.*

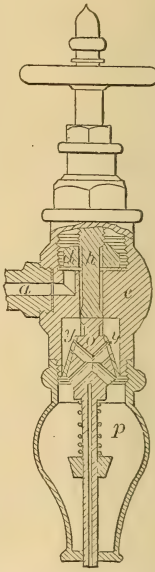


**91759**—McCollum & Parr—*For Making Ginger Snaps and Crackers.*

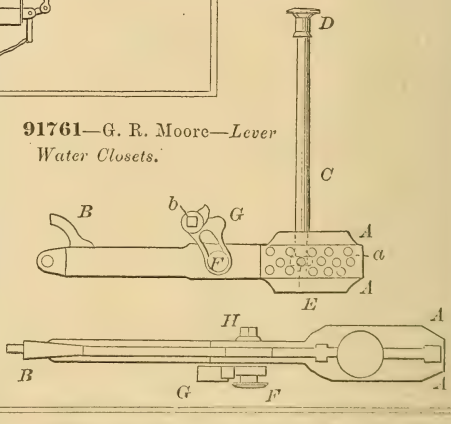
**91762**—H. W. Moore—*Car Wheel.*



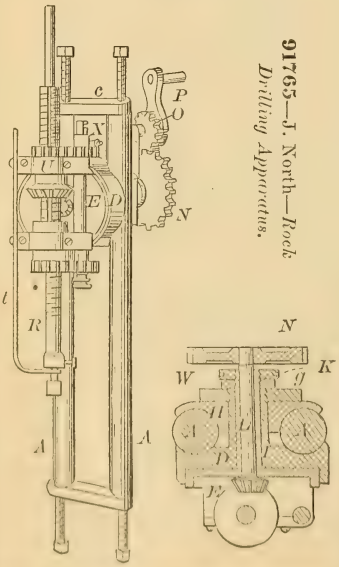

**91763**—A. J. Morse—*Draught Cock.*



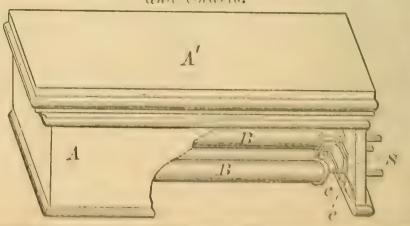

**91761**—G. R. Moore—*Lever Water Closets.*



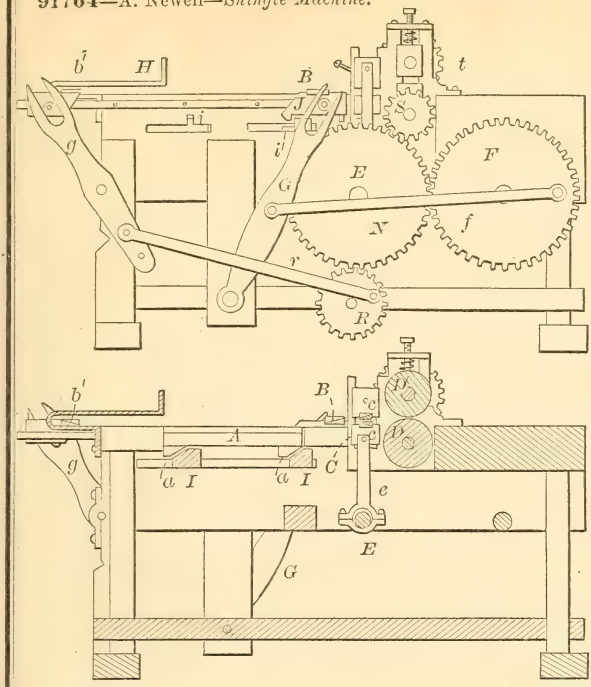

**91765**—J. North—*Rock Drilling Apparatus.*



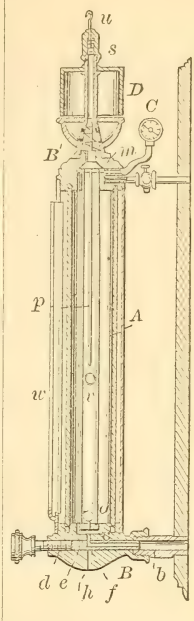

**91766**—J. S. Ostrander—*Roller Case for Maps and Charts.*



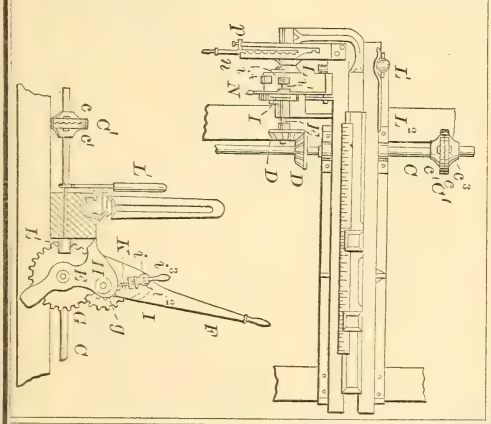
**91764**—A. Newell—*Shingle Machine.*



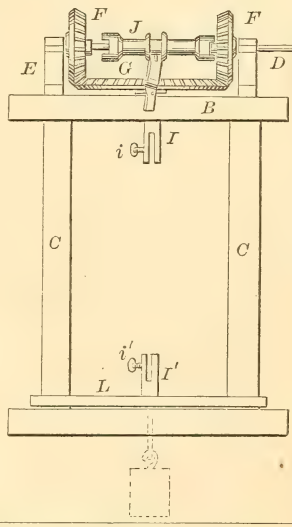
**91769**—E. D. Pritchard—*Low Water Indicator.*



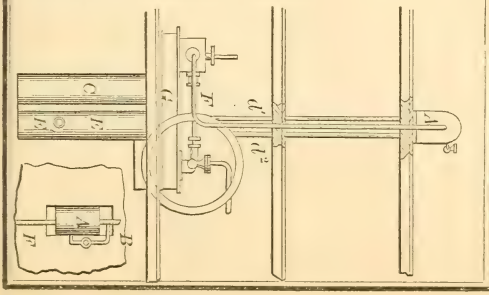
**91767**—D. Parkhurst—*Head Block for Saw Mills.*



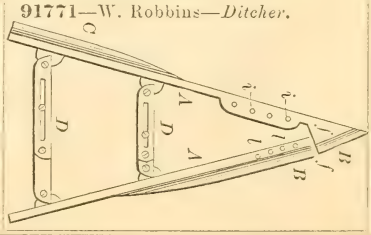
**91772**—H. Royer—*For Treading Hides.*



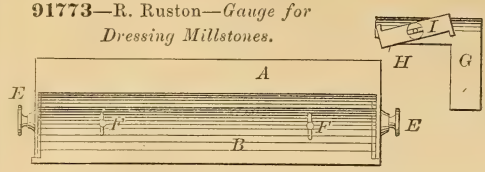
**91770**—F. Ransom—*Condenser.*



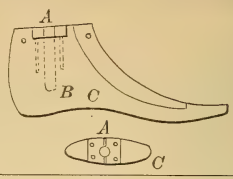
**91771**—W. Robbins—*Ditcher.*



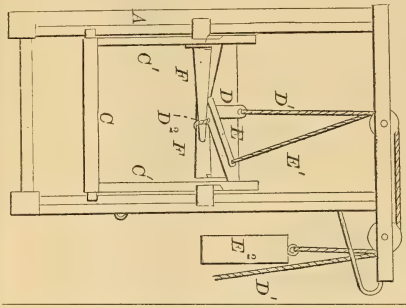
**91773**—R. Ruston—*Gauge for Dressing Millstones.*



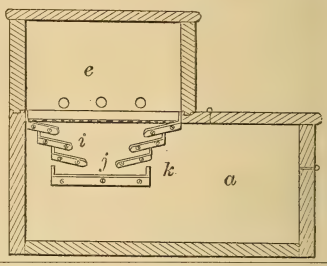

**91774**—I. N. C. Saville—*Last.*



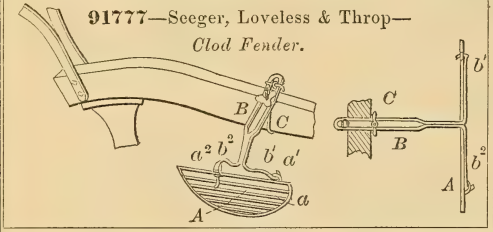

**91775**—G. Scott—*Elevator.*



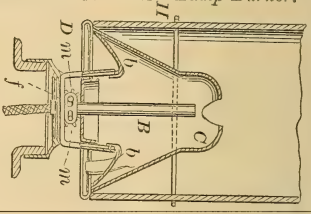

**91776**—F. S. Sears—*Butter Chest.*



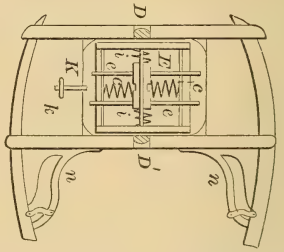

**91777**—Seeger, Loveless & Throp—*Clod Fender.*



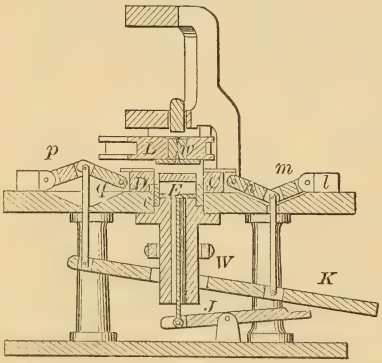

**91778**—F. Shaller—*Lamp Burner.*

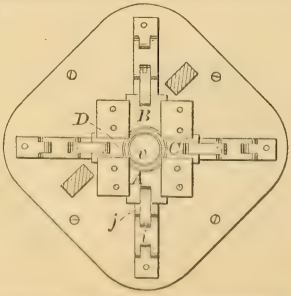



**91779**—S. S. Simmons—*Vehicle Seat.*

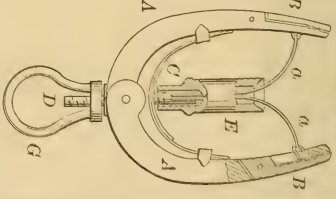



**91780**—R. Smith—*For Finishing Paper Boxes.*

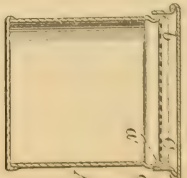


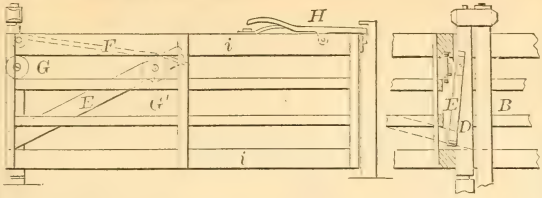

**91781**—A. J. Smith—*Lasting Iron.*



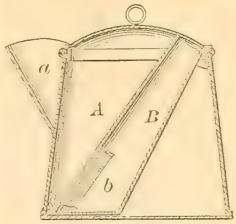

**91782**—H. E. Snyser—*Spice Box.*



**91783**—J. Snell—*Gate.*

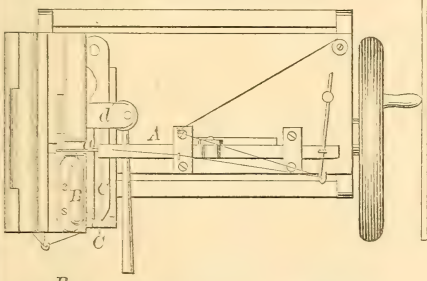



**91787**—T. B. & J. Stout—

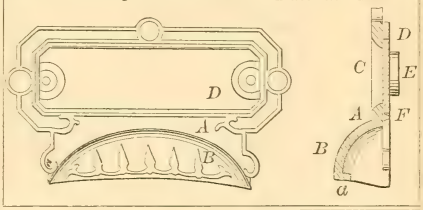


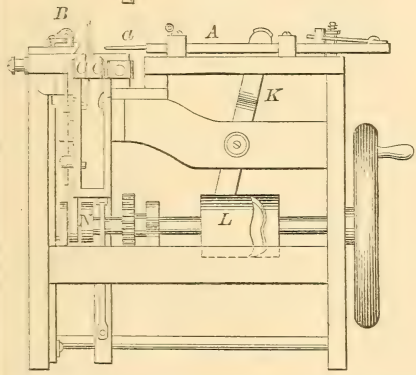

*Coffee and Tea Pot.*

**91784**—G. Stackpole—*For Sewing Brooms.*

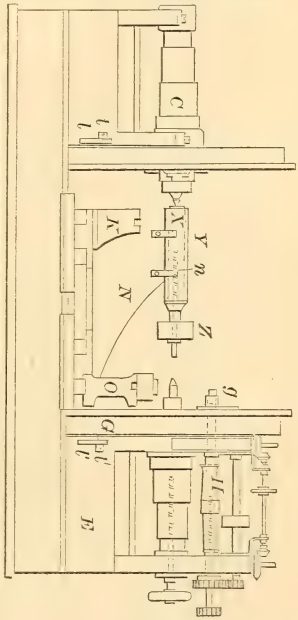



**91810**—J. Quinlan—*Drawer Pull and Label.*

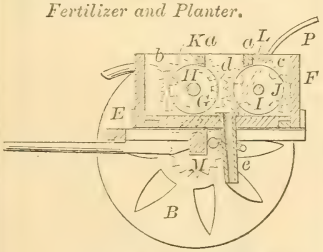


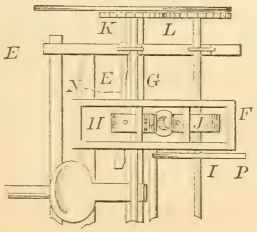




**91788**—H. D. Stover—*Lathe.*

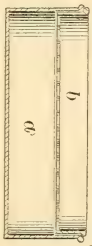


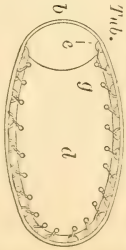

**91786**—J. M. Stoner—*Corn Fertilizer and Planter.*

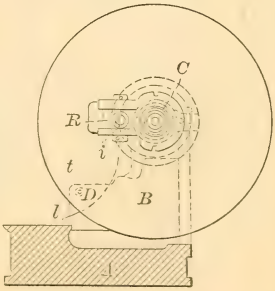


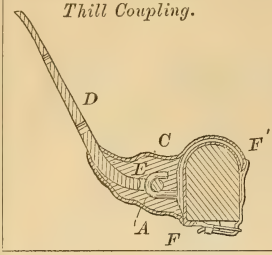

**91785**—M. A. Stevens—*Bath Tub.*



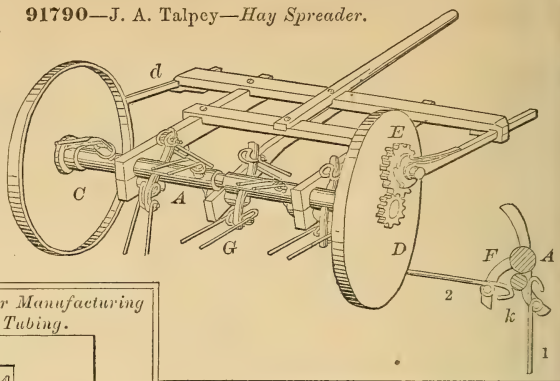



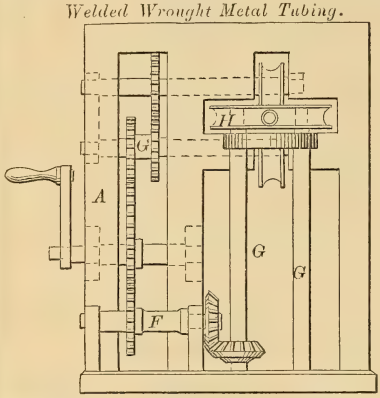
**91789**—O. Tackmann—*Thill Coupling.*



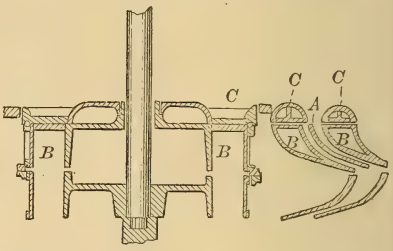

**91790**—J. A. Talpey—*Hay Spreader.*



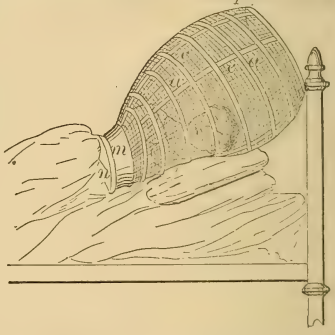

**91791**—S. P. M. Tasker—*For Manufacturing Welded Wrought Metal Tubing.*



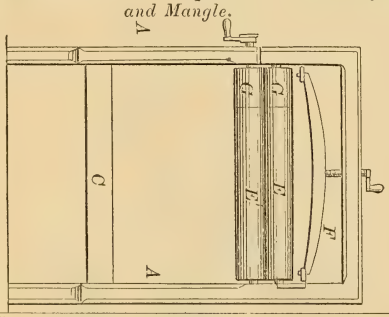

**91792**—S. Teachout—*Water Wheel.*



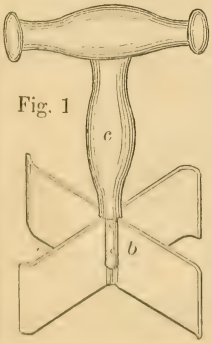

**91793**—R. Themar—*Mosquito Guard.*



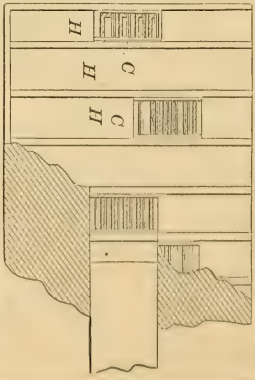

**91794**—B. O. Thompson—*Clothes Wringer and Mangle.*

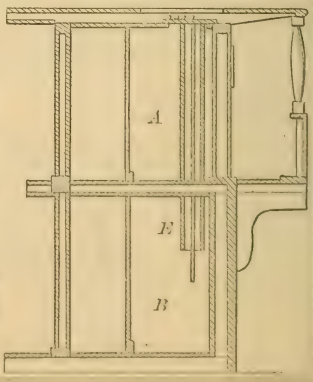



**91795**—F. M. Unticdt—*Chopping Knife.*

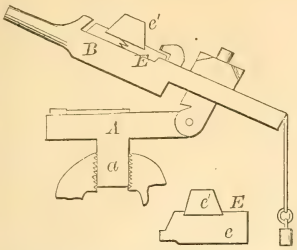



**91796**—W. W. Vanderbilt—*Ship Ventilator.*

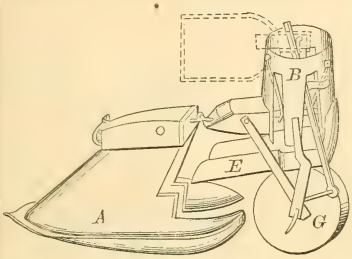


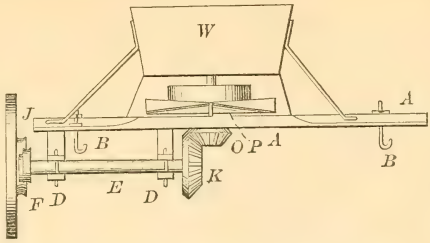
**91797**—W. T. Vann—*Horseshoe Nail Pointer.*



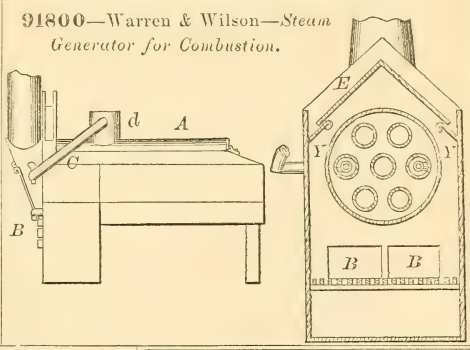

**91798**—L. Van Wie—*Potato Planter.*



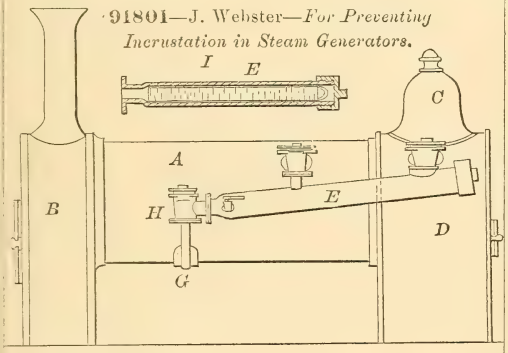

**91799**—T. Vreeland—*Seed Sower.*



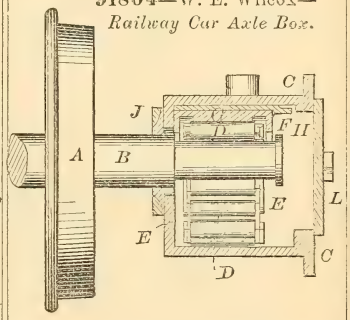

**91800**—Warren & Wilson—*Steam Generator for Combustion.*



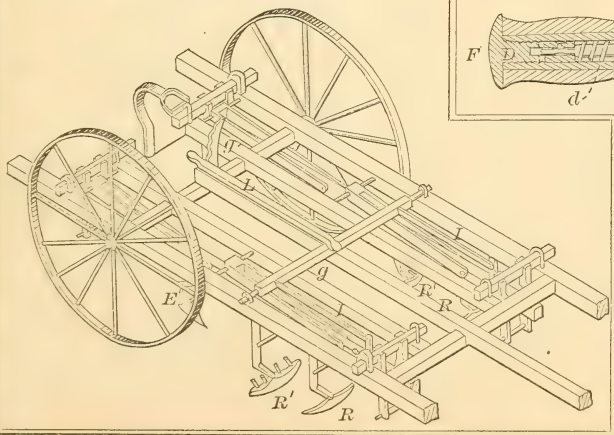

**91801**—J. Webster—*For Preventing Incrustation in Steam Generators.*



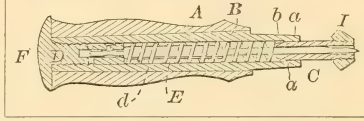

**91804**—W. E. Wilcox—*Railway Car Axle Box.*



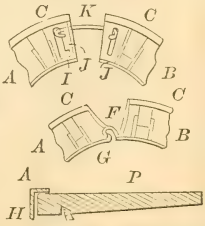

**91802**—W. J. Wells—*Cultivator.*



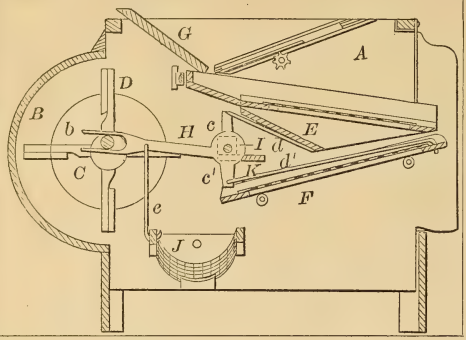

**91806**—N. Woodbury—*Centreing Awl.*



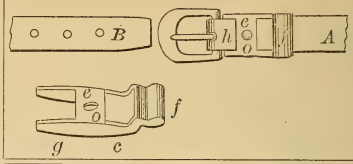

**91803**—H. Whitney—*Detachable Stove Pipe Clothes Dryer.*



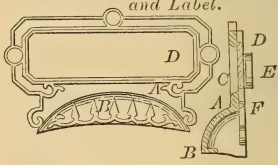
**91805**—Wirts & Swift—*Grain Separator.*



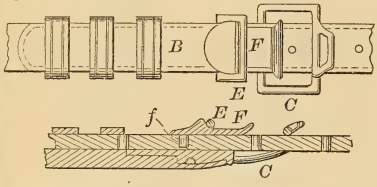

**91809**—A. Worster—*Harness Loop.*



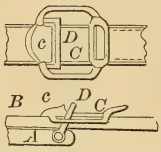

**91810**—J. Quinlan—*Drawer Pull and Label.*



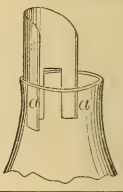

**91807**—A. Worster—*Trace Buckle.*



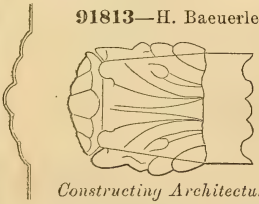

**91808**—A. Worster—*Trace Buckle.*




**91812**—J. M. Aubrey—*Lamp Light Extinguisher.*

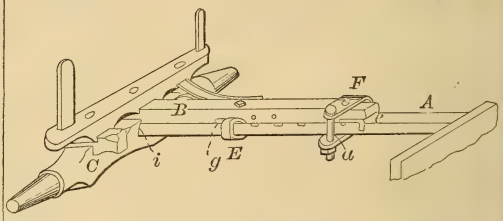



**91813**—H. Baeuerle—

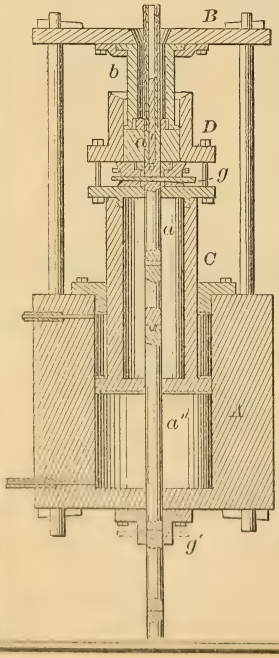


*Constructing Architectural Ornaments of Sheet Metal.*

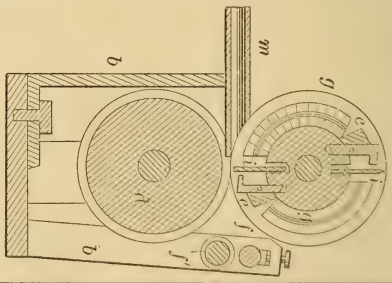
**91811**—J. P. Allensworth—*Wagon Coupling.*



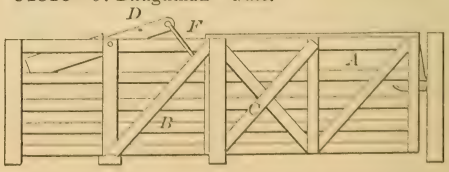

**91815**—H. J. Bailey—*For Making Tin-Lined Lead Pipe.*



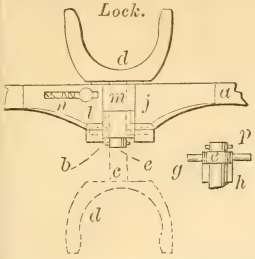

**91814**—H. J. Bailey—*For Preparing Bar Lead.*



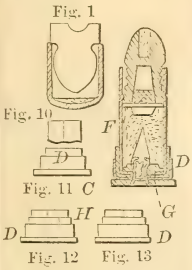

**91816**—J. Baughman—*Gate.*



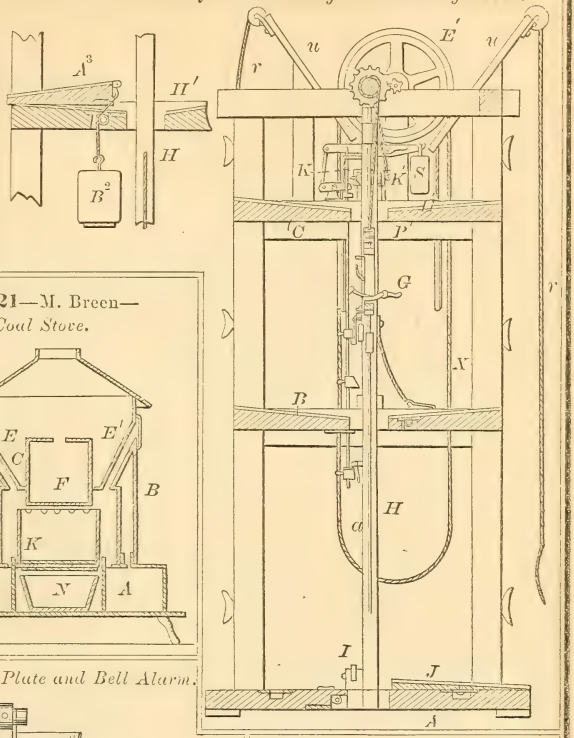
**91817**—W. E. Beman—*Oar Lock.*



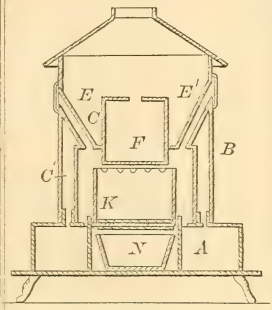

**91818**—E. M. Boxer—*Cartridge.*



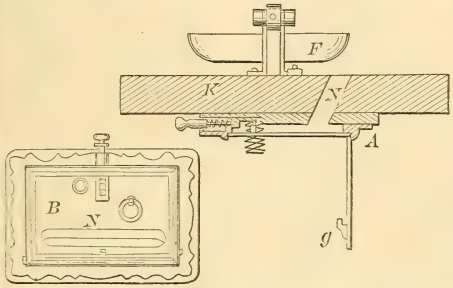

**91819**—W. Bradbury—*For Raising and Lowering Goods.*



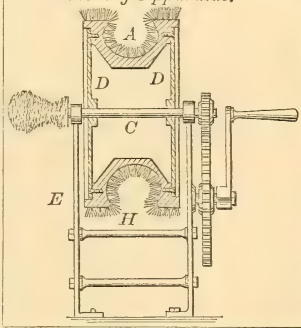

**91821**—M. Breen—*Coal Stove.*



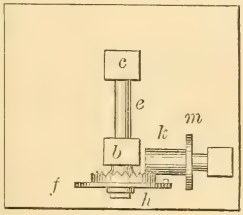

**91820**—W. G. Brady—*Door Plate and Bell Alarm.*



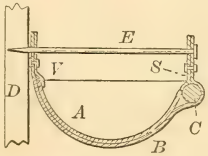

**91825**—H. Churchman—*Boot Blacking Apparatus.*



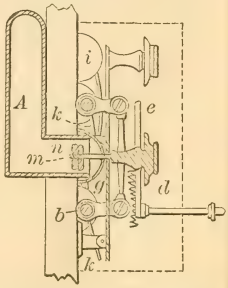

**91822**—W. H. Brown—*Machine Indicator for Cloth Manufacturing, &c.*



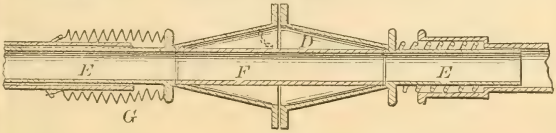

**91823**—F. M. Buckles—*Eaves Trough Attachment.*



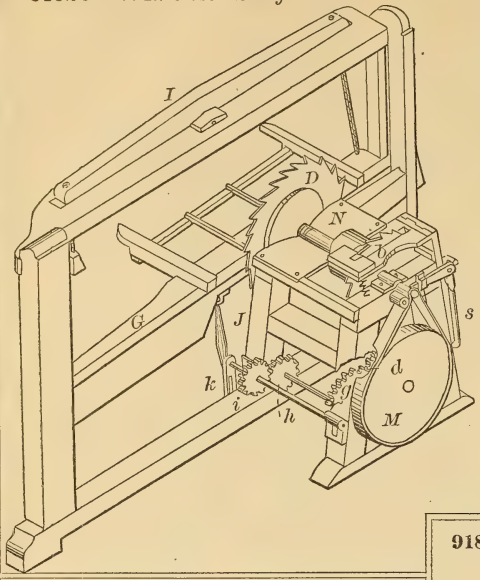

**91827**—J. R. Creighton—*Speaking Tube Signal.*



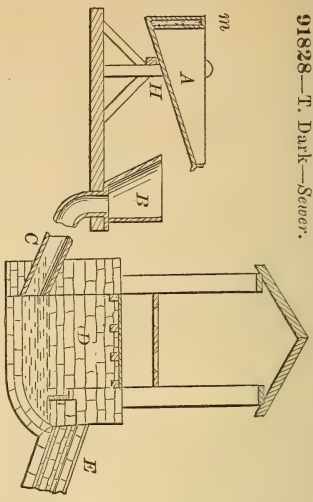

**91824**—D. C. Chipman—*Railroad Car Heater.*



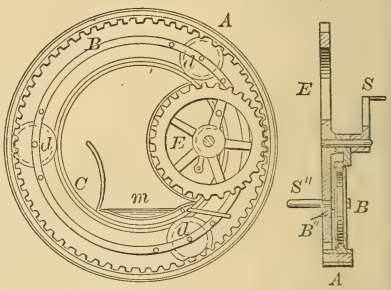
**91826**—W. R. Close—*Shingle Machine.*



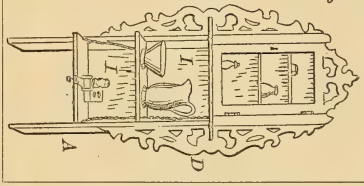

**91828**—T. Dark—*Sewer.*



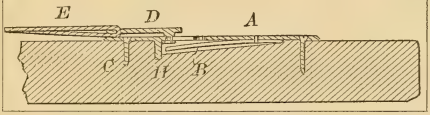

**91829**—J. G. Dillaha—*Velocipede.*



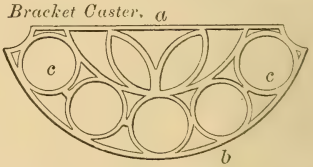

**91830**—H. W. Eastman—*Dressing Case.*



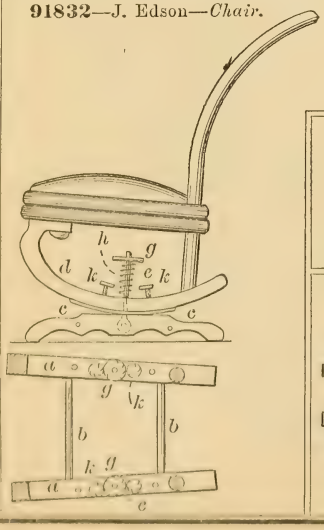

**91831**—J. B. Eaton—*Holdback for Thills.*



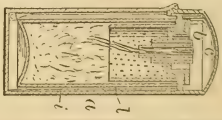

**91835**—Forbes & Fletcher—*Wall or Bracket Caster.*



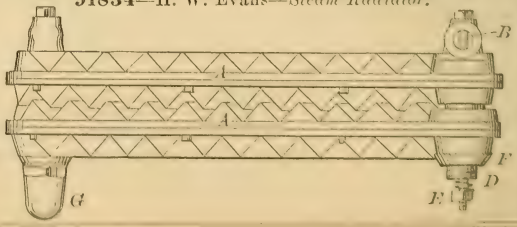

**91832**—J. Edson—*Chair.*



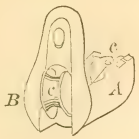

**91833**—Erpelding & Huttmann—*Lamp.*



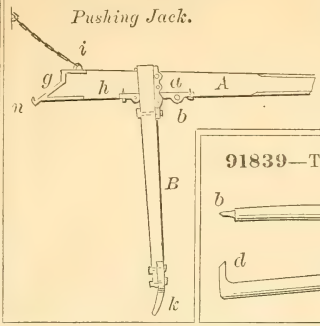
**91834**—H. W. Evans—*Steam Radiator.*



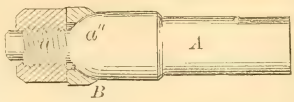
**91836**—J. M. Ford—*Window Pulley.*



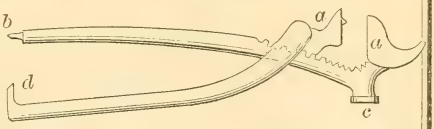

**91837**—A. Freeman—*Pushing Jack.*



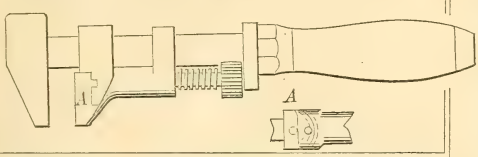

**91841**—G. A. Gray, Jr.—*Nut Mandrel.*



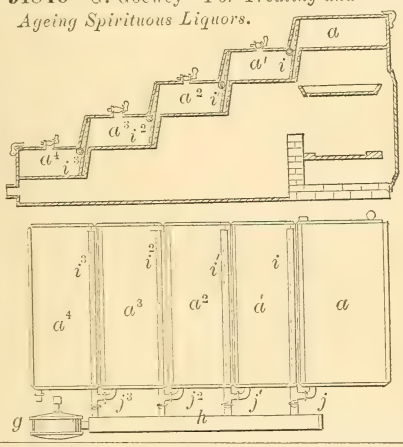

**91839**—T. Garrick—*Household Implement.*



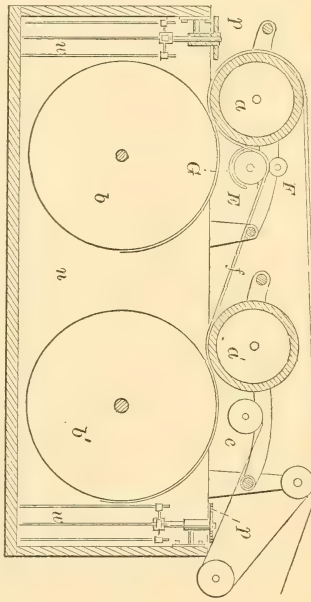

**91838**—T. Garrick—*Wrench.*

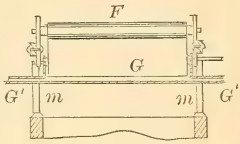



**91840**—G. Goewey—*For Treating and Ageing Spirituous Liquors.*

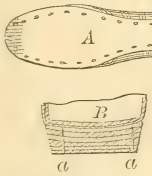



**91842**—R. C. Harris—*For Making Paper.* Fig. 1

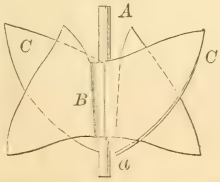


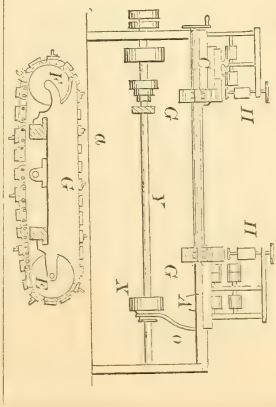

**91844**—G. Hawkes—*Boots and Shoes.*



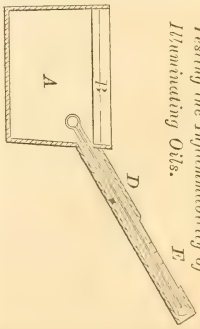

**91845**—J. O. Heyworth—*Propeller.*



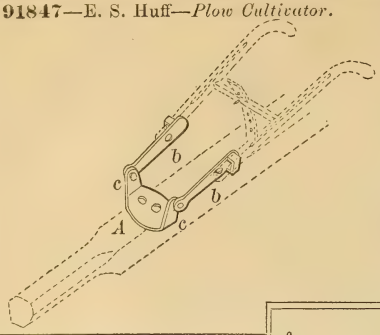

**91846**—L. S. Hicks—*Tenoning Machine.*



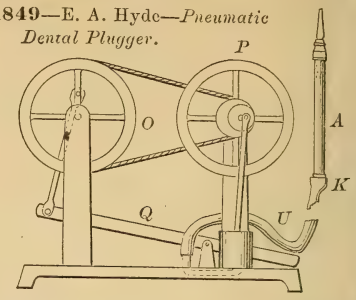

**91843**—H. M. Hartshorn—*For Testing the Inflammability of Illuminating Oils.*

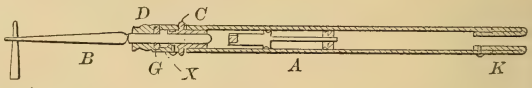


**91847**—E. S. Huff—*Plow Cultivator.*

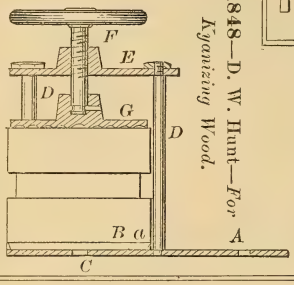



**91849**—E. A. Hyde—*Pneumatic Dental Plugger.*

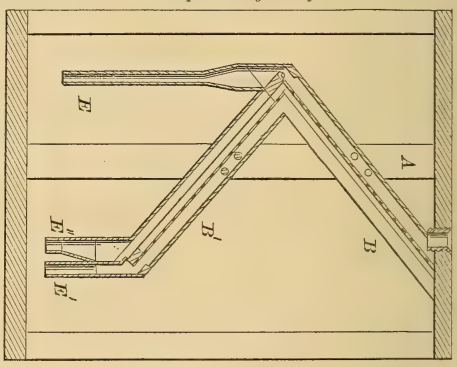


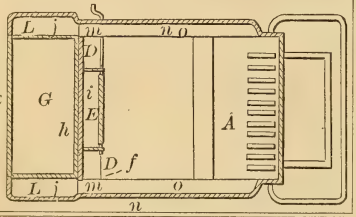

**91848**—D. W. Hunt—*For Kyanizing Wood.*



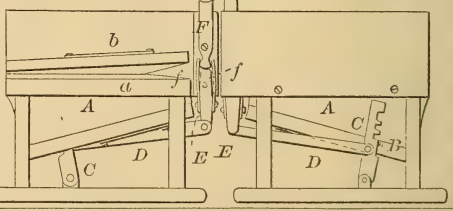

**91850**—G. A. Jasper—*Sugar Sifter.*



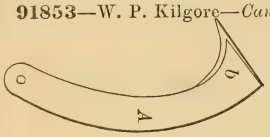

**91851**—W. H. Johnson—*Stove.*



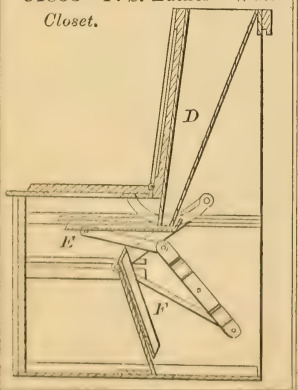

**91852**—S. H. Jones—*Bellows for Reed Organs.*



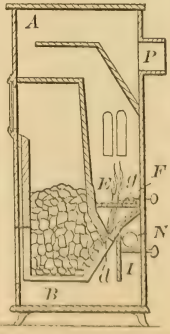

**91853**—W. P. Kilgore—*Cant Hook.*



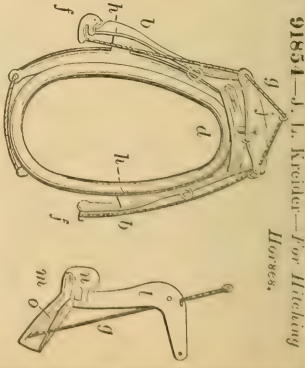

**91855**—P. S. Luther—*Water Closet.*



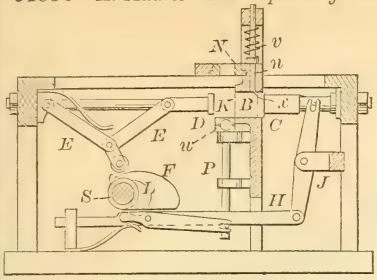

**91857**—O. F. Mayhew—*Stove.*



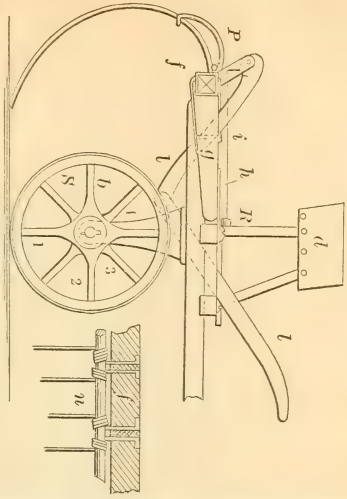

**91854**—J. L. Kreider—*For Hitching Horses.*



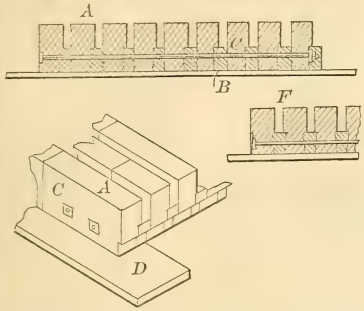
**91856**—H. Maurer—*For Repressing Bricks.*



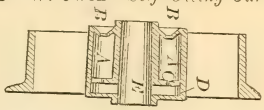

**91858**—R. W. McClelland—*Horse Rake.*



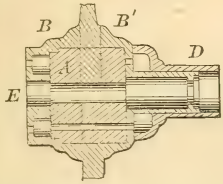

**91861**—A. Miller—*Wood Pavement.*



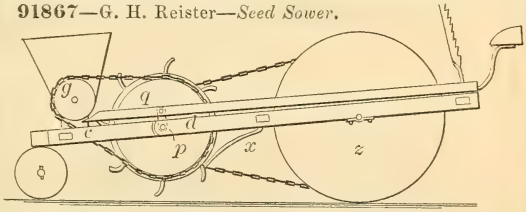

**91863**—W. Owen—*Self-Oiling Car Wheel.*



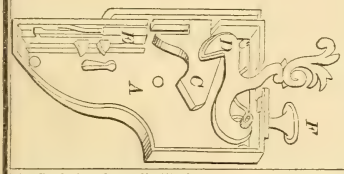

**91859**—R. W. McClelland—*Carriage Wheel.*



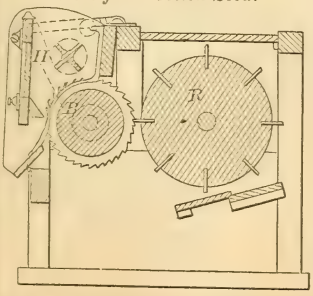

**91867**—G. H. Reister—*Seed Sower.*




**91865**—H. G. Pein—*Latch and Lock.*




**91866**—W. F. Pratt—*For Removing Lint from Cotton Seed.*




**91864**—W. Palliser—*Ordnance.*

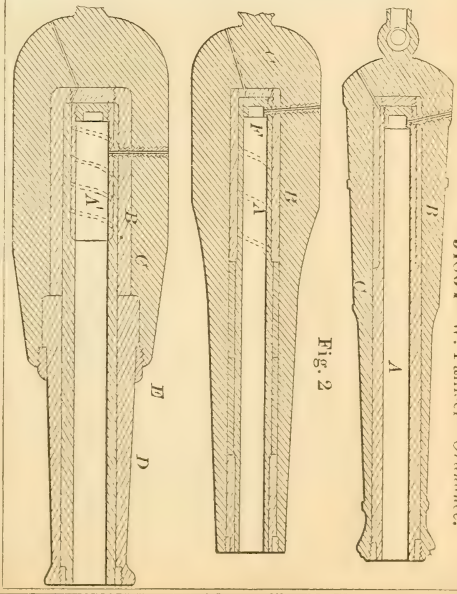
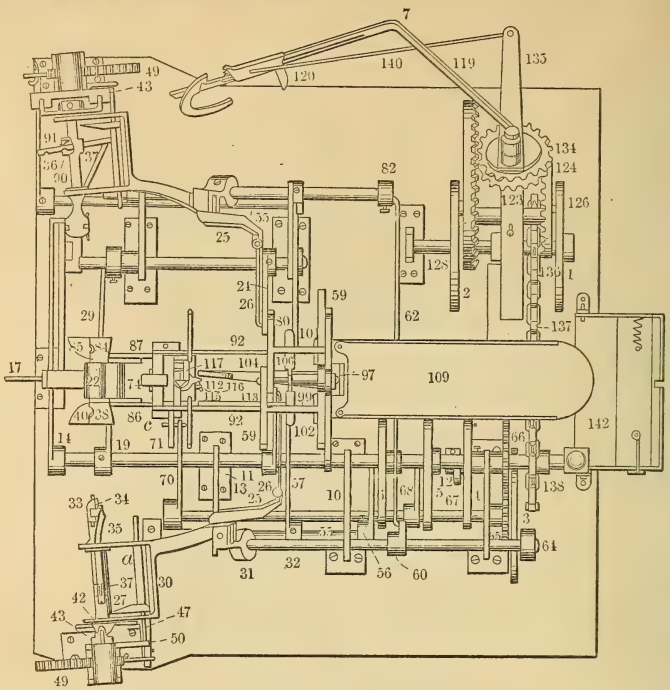
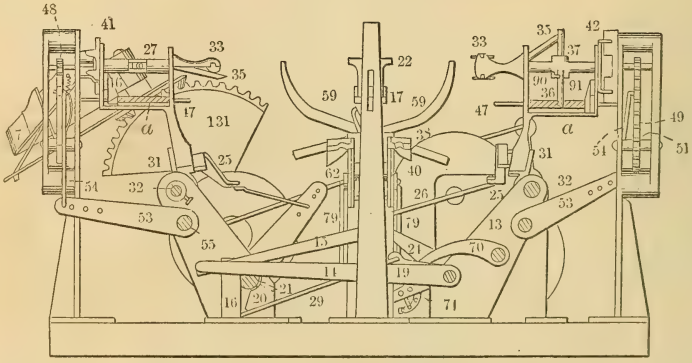
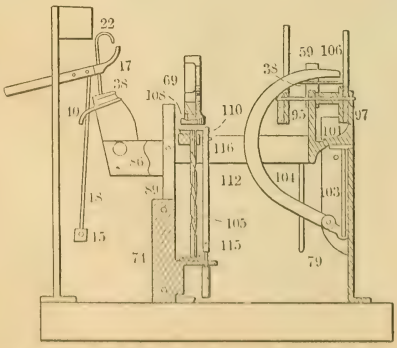


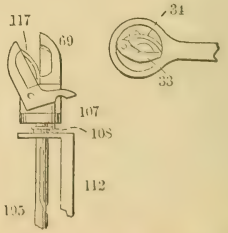

Fig. 2

**91860**—J. M. McMaster—*Grain Binder.*









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